



TREASURE ROOM

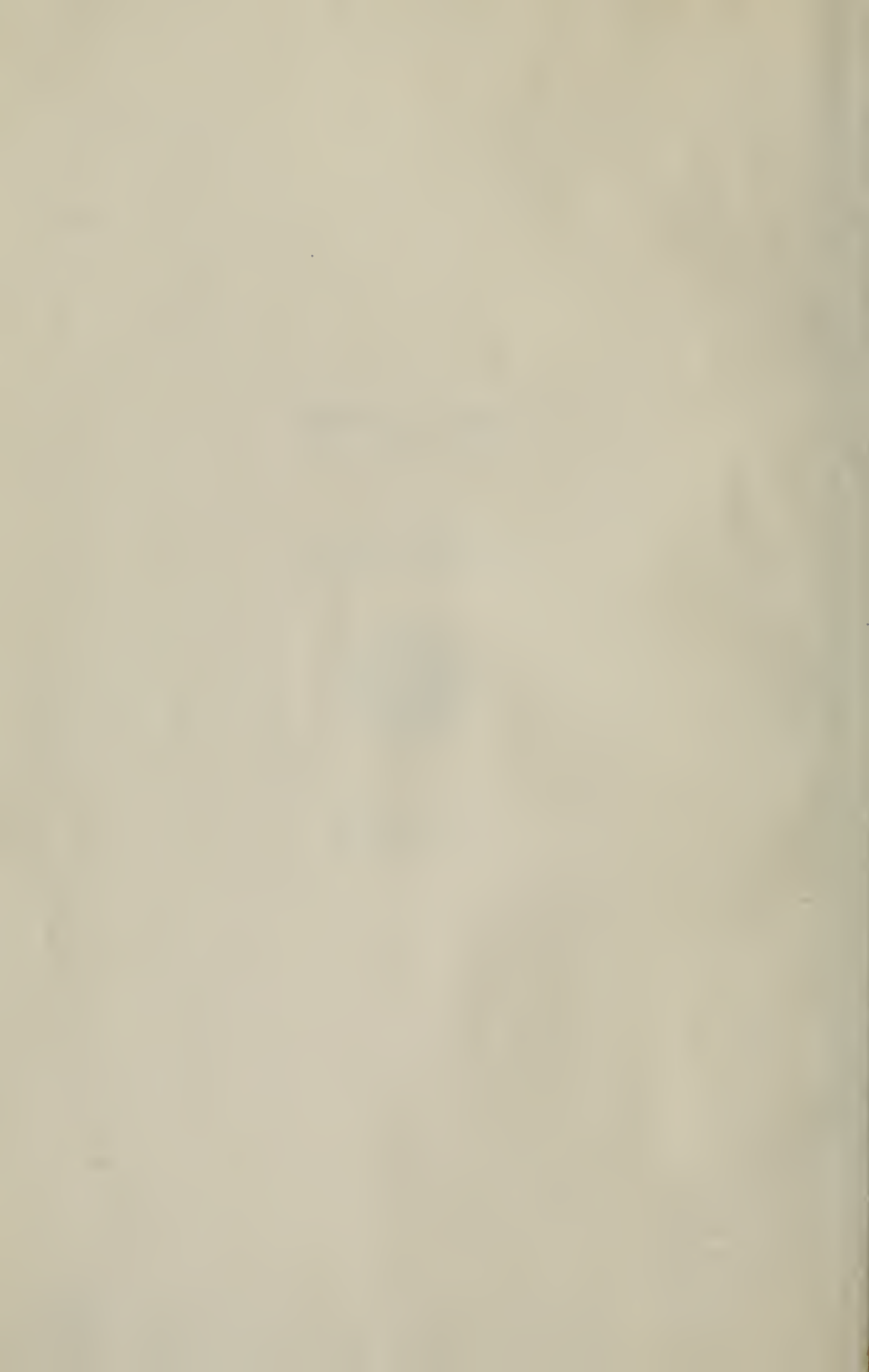
DUKE  
UNIVERSITY



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VOLUME 10

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NUMBER 1

# BULLETIN OF DUKE UNIVERSITY

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*The School of Nursing*

1938



PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

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BULLETIN  
OF  
DUKE UNIVERSITY  
THE SCHOOL OF NURSING



1938

DURHAM, NORTH CAROLINA  
1938



## SCHOOL OF NURSING AND HOSPITAL CALENDAR 1938-1939

1938

- Jan. 3. Monday—Winter Quarter begins.
- Feb. 22. Tuesday—Washington's Birthday: a holiday.
- March 19. Saturday—Winter Quarter ends.
- April 18. Easter Monday: a holiday.
- June 6. Monday—Commencement.
- June 11. Saturday—Spring Quarter ends.
- June 20. Monday—Summer Quarter begins.
- July 4. Monday—Independence Day: a holiday.
- Sept. 3. Saturday—Summer Quarter ends.
- Sept. 29. Thursday—Autumn Quarter begins.
- Nov. 24. Thursday—Thanksgiving Day: a holiday.
- Dec. 17. Saturday—Autumn Quarter ends.

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1939

- Jan. 2. Monday—Winter Quarter begins.
- Feb. 22. Wednesday—Washington's Birthday: a holiday.
- March 18. Saturday—Winter Quarter ends.
- March 27. Monday—Spring Quarter begins.
- April 10. Easter Monday: a holiday.
- June 5. Monday—Commencement.
- June 10. Saturday—Spring Quarter ends.

## OFFICERS OF ADMINISTRATION

WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., LL.D.  
*President of the University*

ROBERT LEE FLOWERS, A.M., LL.D.  
*Vice-President, Secretary, and Treasurer*

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.  
*Vice-President*

CHARLES BLACKWELL MARKHAM, A.B., A.M.  
*Assistant Treasurer*

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BESSIE BAKER, R.N., B.S.  
*Dean of the School of Nursing*

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D.  
*Dean of the School of Medicine*

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## COMMITTEES

### STANDARDS COMMITTEE

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D., *Dean of the School of Medicine.*  
BESSIE BAKER, R.N., B.S., *Dean of the School of Nursing.*  
ANN HENSHAW GARDINER, R.N., B.S., M.S., *Assistant Professor of Nursing Education.*  
JULIA ELIZABETH WHITE, A.B., R.N., *Assistant to the Dean.*

### STUDENT WORK COMMITTEE

BESSIE BAKER, R.N., B.S., *Dean of the School of Nursing.*  
ANN HENSHAW GARDINER, R.N., B.S., M.S., *Assistant Professor of Nursing Education.*  
JULIA ELIZABETH WHITE, A.B., R.N., *Assistant to the Dean.*  
ISABEL HUNTER DILL, R.N., B.S., *Instructor in Principles and Practice of Nursing.*  
GARNETTE ANNE NESTER, R.N., B.S., *Instructor and Assistant to the Dean.*

### ADVISORY COMMITTEE

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D., *Dean of the School of Medicine.*  
BESSIE BAKER, R.N., B.S., *Dean of the School of Nursing.*  
FREDERICK VERNON ALTVATER, A.B., A.M., *Superintendent.*



## FACULTY OF THE SCHOOL OF NURSING

BESSIE BAKER, R.N., B.S.

*Dean of the School of Nursing and Professor of Nursing Education*

Diploma, Johns Hopkins Hospital School of Nursing, 1902; Assistant Director of Nursing Women's Hospital, 1910-12; Assistant Director of Nursing, Johns Hopkins Hospital, 1912-17; Chief Nurse, Base Hospital No. 18, A. E. F., 1917-19; B.S. and Diploma in Administration in Schools of Nursing, Teachers College, Columbia University, 1922; Director of Nursing at Charles T. Miller Hospital, St. Paul, and Assistant Professor of Nursing, University of Minnesota, 1922-30; Dean of the School of Nursing and Professor of Nursing Education, 1930—.

ANN HENSHAW GARDINER, R.N., B.S., M.S.

*Assistant Professor of Nursing Education*

Diploma and Teaching, Certificate, Shepherd College State Normal, Shepherdstown, W. Va., 1909; taught public schools, 1909-11; Diploma, Massachusetts General Hospital School of Nursing, 1914; Theoretical and Practical Instructor, St. Luke's Hospital, New Bedford, Mass., 1914-17; U. S. Base Hospital No. 6, A. E. F., 1917-19; Superintendent of Nurses, Bridgeport Hospital, Bridgeport, Conn., 1920-21; B.S. and Teacher's Diploma, Teachers College, Columbia University, 1923; Educational Director, Baylor University School of Nursing, Dallas, Texas, 1922-24; Premedical course, University of Washington, Seattle, Wash., 1925; Director of Education, Stanford University School of Nursing, 1925-26; M.S., Kansas State Agricultural College, 1927; Director of Education, Flushing Hospital, Flushing, N. Y., 1927-30; Assistant Professor of Nursing Education, 1930—.

JULIA ELIZABETH WHITE, A.B., R.N.

*Assistant to the Dean*

A.B., Newberry College, Newberry, S. C., 1927; Diploma, Johns Hopkins Hospital, School of Nursing, 1930; Head Nurse, Assistant Night Supervisor, Night Supervisor, Harriet Lane Home, Johns Hopkins Hospital, 1930-32; Assistant to Dean, Duke Hospital, 1933—.

ISABEL HUNTER DILL, R.N., B.S.

*Instructor in Principles and Practice of Nursing*

Diploma, Peter Bent Brigham Hospital School of Nursing, 1920; B.S. and Diploma as Instructor in School of Nursing, Teachers College, Columbia University, 1933; Medical Head Nurse, 1921-23, Surgical Supervisor, 1923-25, Peter Bent Brigham Hospital; Instructor in Nursing Practice, St. Luke's Hospital, New Bedford, Mass., 1925-30, 1931-32; Instructor in Nursing Practice, Stanford University School of Nursing, San Francisco, Calif., 1933-34; Instructor in Nursing Practice, Duke Hospital, 1934—.

GARNETT ANNE NESTER, R.N., B.S.

*Instructor in Nursing and Assistant to the Dean*

Diploma, Church Home and Infirmary School of Nursing, 1930; B.S. as Instructor in School of Nursing, Teachers College, Columbia University, 1932; Instructor in Nursing Procedures, Elizabeth General Hospital, Elizabeth, N. J., 1932-33; Instructor in Theory, Morristown Memorial Hospital, Morristown, N. J., 1933-34; Assistant Superintendent of Nurses, Emergency Hospital, Washington, D. C., 1934-35; Assistant to Dean, Duke Hospital, 1935—.

HILDA C. BURNHAM, R.N.

*Supervisor of Medical Service*

Diploma, Johns Hopkins Training School for Nurses, 1930; Head Nurse, Isolation Ward, Johns Hopkins Hospital, 1930-31; Assistant Night Supervisor, Johns Hopkins Hospital, 1931-33; Night Supervisor, Osler Medical Clinic, Johns Hopkins Hospital, 1933-34; Assistant Supervisor and Ward Instructor, Osler Medical Clinic, Johns Hopkins Hospital, 1934-37; Medical Supervisor, Duke Hospital, 1937—.

## MATILDA ELIZABETH HOLLEMAN, R.N., A.B., B.S.

*Supervisor of Surgical Service*

A.B., Duke University, 1931; Diploma, Duke University School of Nursing, 1934; Ward Management and Teaching, Frances Bolton School of Nursing, Cleveland, Ohio, 1935; B.S. in Nursing, Duke University School of Nursing, 1936; Supervisor of Surgical Service, Duke Hospital, 1936—.

## EDITH HINVES, R.N.

*Supervisor of Nursing Service in Dispensary*

Diploma, Johns Hopkins Hospital School of Nursing, 1923; Head Nurse Operating Room, Johns Hopkins Hospital, 1923-25; Assistant Supervisor Operating Room, Johns Hopkins Hospital, 1925-26; Assistant Supervisor Dispensary, Johns Hopkins Hospital, 1925-27; Operating-Room Supervisor and Part-time Instructor, Palmerton Hospital, Palmerton, Pa., 1927-33; Supervisor Nursing Service in Dispensary, Duke Hospital, 1933—.

## MARION FRANCES BATCHELDER, R.N.

*Instructor in Operating-Room Technique, Supervisor of the Operating Room*

Diploma, Peter Bent Brigham Hospital School of Nursing, 1920; Head Nurse and Supervisor of Operating Room, Peter Bent Brigham Hospital, 1921-23 and 1923-27; Head Nurse, Operating Room, Johns Hopkins Hospital, 1927-30; Supervisor of Operating Room, Duke Hospital, 1930—.

## MILDRED SHERWOOD, R.N.

*Instructor in Pediatrics and Supervisor of Pediatric Service*

Diploma, Mount Sinai Hospital, New York City, 1923; Head Nurse, Mount Sinai Hospital, 1923-26; Head Nurse, Johns Hopkins Hospital, Baltimore, Md., 1926-30; Instructor in Pediatrics and Supervisor of Pediatric Service, Duke Hospital, 1930—.

## JANE McCABE IRVINE, R.N., B.S.

*Instructor in Obstetrics and Gynecology and Supervisor of Obstetrics and Gynecological Service*

Graduate in Nursing, University of Minnesota School of Nursing, 1934; B.S. in Nursing Education, University of Minnesota, 1935; Obstetric Supervisor, Minnesota General Hospital, Minneapolis, Minnesota, 1935-37; Supervisor, Obstetrics and Gynecology, Duke Hospital, 1937—.

## ASSISTANT SUPERVISORS AND HEAD NURSES

## CREDITH LOY, R.N.

*Assistant Supervisor of the Operating Room*

Diploma, University of Kansas School of Nursing, 1926; Postgraduate work, Johns Hopkins Hospital, April-Sept., 1927; Surgical Supervisor, University of Kansas Hospital, 1927-29; Second Assistant Surgical Supervisor, Assistant Surgical Supervisor, Johns Hopkins Hospital, 1929-32; Assistant Surgical Supervisor, St. Luke's Hospital, Cleveland, O., Feb., 1933-Sept., 1933; Assistant Supervisor Operating Room, Duke Hospital, 1933—.

## CORNELIA CAMPBELL, R.N.

*Night Supervisor*

Asheville College for Teachers, Asheville, N. C., 1930-31; Diploma, City Hospital, Greenville, S. C., 1934; Assistant Night Supervisor, Greenville Hospital, 1934-35; General Duty, Duke Hospital, 1935-36; Assistant Night Supervisor, 1936-37; Night Supervisor, 1937—.

## GLADYS McBANE DENHOLM, R.N.

*Night Supervisor*

Diploma, Duke University School of Nursing, 1934; General Duty, Duke Hospital, 1934-36; Evening Supervisor, Duke Hospital, 1936-37; Head Nurse, Duke Hospital, Feb.-Oct., 1937; Night Supervisor, Oct., 1937—.

## MARGARET KUYKENDAL, R.N.

*Evening Supervisor*

Queens College, Charlotte, N. C., 1928-30; Diploma, Duke University School of Nursing, 1934; General Duty, Duke Hospital, 1934-36; Assistant Night Supervisor, 1936-37; Evening Supervisor, 1937—.

## LOUISE GURLEY, R.N.

*Evening Supervisor*

East Carolina Teachers College, Greenville, N. C., 1927-29; Diploma, Duke University School of Nursing, 1934; General Duty, Duke Hospital, 1934-37; Evening Supervisor, Duke Hospital, 1937—.

## VIDA M. WOLFORD, R.N.

*Head Nurse on Private Medical Ward*

Diploma, Winchester Memorial Hospital, Winchester, Va., 1923; Night Supervisor, Winchester Memorial Hospital, 1923; Postgraduate course, St. Mary's Hospital, Rochester, Minn., 6 months, 1924; Assistant Director of Nurses, Winchester Memorial Hospital, 1925-26; Operating-Room Supervisor, Holzer Hospital, Gallipolis, Ohio, 1926; Private Duty, 1926-29; Supervisor, Postgraduate School of Medicine, University of Pennsylvania, 1929-34; Head Nurse on Private Medical Ward, Duke Hospital, 1934—.

## ANNIE HILL SHARP, R.N., B.S.

*Head Nurse on Women's Medical Ward*

Diploma, Duke University School of Nursing, 1934; General Duty, Duke Hospital, 1934-35; B.S. in Nursing, Duke University School of Nursing, 1937; Head Nurse, Women's Medical Ward, Duke Hospital, 1937—.

## ELIZABETH MOORE, R.N.

*Head Nurse on Men's Medical Ward*

Greensboro College, Greensboro, N. C., 1929-31; Diploma, Duke University School of Nursing, 1934; General Duty, Duke Hospital, 1934-37; Head Nurse, Men's Medical Ward, Duke Hospital, 1937—.

## NOLIE MAE HOBGOOD, R.N.

*Head Nurse on Medical and Surgical Colored Ward*

Diploma, Watts Hospital School of Nursing, 1932; Private Duty, 6 months; General Duty, Duke Hospital, 1932-37; Head Nurse, Medical and Surgical Colored Ward, Duke Hospital, 1937—.

## MARGARET REBECCA HERMAN, R.N., A.B.

*Head Nurse on Men's Surgical Ward*

A.B., Lenoir Rhyne College, Hickory, N. C., 1931; Diploma, Duke University School of Nursing, 1934; General Duty, Duke Hospital, Dec., 1934-June, 1936; Head Nurse, Men's Surgical Ward, Duke Hospital, June, 1936—.

## KATHERINE INEZ GIBSON, R.N.

*Head Nurse on Women's Surgical Ward*

Diploma, Presbyterian Hospital, Charlotte, N. C., 1928; Private Duty, 1928-31; General Duty, Duke Hospital, 1931-36; Head Nurse, Duke Hospital, 1936—.

## ROSABELLE WEHUNT, R.N.

*Head Nurse on Women's Surgical Ward*

Diploma, Duke University School of Nursing, 1936; General Duty, Duke Hospital, 1936-37; Head Nurse, Women's Surgical Ward, 1937—.

## VERA VIRGINIA THOMAS, R.N.

*Head Nurse on Men's Surgical Ward*

Diploma, Duke University School of Nursing, 1935; General Duty, 1935-36; Head Nurse, Duke Hospital, 1936—.

## JULIA JANE BRADSHAW, R.N.

*Head Nurse on Private Surgical Ward*

North Carolina College for Women, 1919-20; Diploma, Duke University School of Nursing, 1934; Assistant Head Nurse, Medical Ward, 1934-36; Head Nurse, Private Surgical Ward, 1936—.

## G. PAULINE ATKINSON, R.N.

*Head Nurse on Obstetrical and Gynecological Ward*

Diploma, Duke University School of Nursing, 1937; Head Nurse, Obstetrical and Gynecological Ward, Duke Hospital, 1937—.

## LECTURERS

HELGE LUNDHOLM, Ph.D.....	<i>Psychology</i>
HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D.....	<i>Chemistry</i>
WILLIAM HENRY HOLLINSHEAD, B.A., M.S., Ph.D.....	<i>Anatomy</i>
GEORGE SHARP EADIE, M.A., M.B., Ph.D.....	<i>Physiology</i>
MCDONALD DICK, B.A., M.A., M.D.....	<i>Physiology</i>
BAYARD CARTER, A.B., B.A., M.A., M.D.....	<i>Obstetrics and Gynecology</i>
RICHARD BEVERLY RANEY, A.B., M.D.....	<i>Orthopedics</i>
LENNOX DIAL BAKER, M.D.....	<i>Orthopedics</i>
EDWIN PASCAL ALYEA, S.B., M.D.....	<i>Urology</i>
ROBERT RANDOLPH JONES, JR., A.B., M.D.....	<i>Surgery</i>
RICHARD ZIMRI QUERY, JR., B.S., M.D.....	<i>Medicine</i>
ANGUS MURDOCH MCBRYDE, B.S., M.D.....	<i>Pediatrics</i>
JAY MORRIS ARENA, B.S., M.D.....	<i>Pediatrics</i>
DOUGLAS HAMILTON SPRUNT, B.S., M.S., M.D.....	<i>Pathology</i>
WILLIAM BANKS ANDERSON, A.B., M.D.....	<i>Ophthalmology</i>
WATT WEEMS EAGLE, A.B., M.D.....	<i>Otolaryngology</i>
DONALD STOVER MARTIN, A.B., M.D.....	<i>Bacteriology</i>
ELSIE WILSON MARTIN, A.B., M.S.....	<i>Dietetics</i>
VIRGINIA GEARHART GRAY, A.M., Ph.D.....	<i>English</i>
MARGARET EDGECOMBE CARTER, A.B.....	<i>Physical Education</i>
MABEL PAGE GORDON, A.B.....	<i>Physiotherapy</i>

# **THE SCHOOL OF NURSING**

## **GENERAL INFORMATION**

The School of Nursing of Duke University was established in 1925 in connection with the School of Medicine of the University and Duke Hospital through the munificent gift of the late James B. Duke.

The plan of the School is to give a sound basic course in Nursing Education which will prepare young women to give intelligent nursing care to the sick in hospitals and homes of the community as well as an introduction to the problems of community health and preventive medicine.

## **ORGANIZATION**

The administration of the School is conducted largely through the following three committees:

The Standards Committee\* decides all matters of educational policy and general conduct of the School of Nursing.

The Student Work Committee\* meets the incoming students at registration, determines the policies for the individual student, interviews the students at regular periods concerning theoretical and practical work, and makes recommendations for further continuance or withdrawal from the School.

The Advisory Committee\* is concerned with the expenditures of the School of Nursing.

## **FACILITIES FOR INSTRUCTION**

The facilities for instruction include the undergraduate colleges of the University, the School of Medicine, and the Duke Hospital. Students of the School of Nursing are admitted on the same basis as other students of the University.

## **LIBRARIES**

The reference library of books and periodicals of special interest to students majoring in nursing is located in the Hospital Library. The student may use the general libraries on both campuses.

## **RESIDENCE**

The students are housed in the new fireproof residence located near the Hospital. It is adequately equipped with blankets and linen, making further provision by the student unnecessary.

## **HEALTH REGULATIONS AND PHYSICAL EDUCATION**

The School has general supervision of the student's health. All students are required to pass a physical examination upon admission to the

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\* See page 4



School of Nursing and at periods thereafter, a final examination being given at the end of the course. The usual tests and vaccinations are required. Exercise for two periods a week during the first two quarters is required of all students taking the three-year course. Students in the five-year course meet the full requirements of the Woman's College during their Freshman and Sophomore years.

### ACTIVITIES OFFERED

*Autumn Quarter*—(October to December): Hockey, swimming, tennis, riding, moderate sports, and hiking.

*Winter Quarter*—(January to March): Informal gymnastics, Danish gymnastics, apparatus, games, individual gymnastics, folk dancing, clogging, interpretative dancing, swimming, and basketball.

*Spring Quarter*—(March to June): Tennis, swimming, riding, baseball, track, field events, and archery.

### ADMISSION REQUIREMENTS

An application form may be obtained by writing to the Dean, Duke University School of Nursing, Durham, N. C. The application should be submitted as early as possible in the year in which the applicant desires admission to the School. The applicant will be notified whether she has been accepted or declined; if accepted, the student must send a deposit of \$25 within two weeks to insure her enrollment. This money will be applied toward the tuition. There is a period of orientation for the student five days immediately preceding the opening of the School. Students are matriculated in the School of Nursing on September 29, 1938.

The entrance requirements are intelligence, character, and graduation from an accepted high school. The course leading to the Diploma of Graduate Nurse consists of three years of eleven months each. The student must have passed her eighteenth birthday.

The degree of Bachelor of Science in Nursing also is offered to those who have completed successfully two years of college work (60 semester-hours) in Duke University or another acceptable college or university in addition to the three-year course leading to the Diploma of Graduate Nurse in Duke University School of Nursing. The sixty semester-hours may be completed either before or after the three-year course in the School of Nursing. Those who contemplate studying for this degree should write to the Dean of the School of Nursing for advice in regard to the required course of study.

### EXPENSES

The balance of the tuition fee of \$100 yearly is payable upon the day of admission, and at the beginning of each succeeding year of the three-year course. There will be no expense for room, board, and laundry during the pre-clinical and clinical periods. Textbooks and uniforms are furnished. There are no scholarships or loan funds in the School of Nursing. In the five-year course leading to the Diploma of Nursing and the B.S. degree the expense of the two years of college

work is borne by the student. The above regulations regarding tuition, board, uniforms, and textbooks apply only when the student is in residence in the School of Nursing.

### WITHDRAWAL

Students in any class are admitted on the understanding that only those will be advanced who, in the opinion of the Standards Committee, give promise of being a credit to themselves and the School. At intervals the Standards Committee reviews the records of all students, and those whose progress has been unsatisfactory may be advised to leave the School.

### READMISSION

Students who are absent for more than one month through illness or leave of absence will be readmitted the following year at a time at which the class or clinical schedule can be adjusted to their needs.

### THE THREE-YEAR COURSE

Each year is divided into four quarters of three months each. For the student entering in September there is a vacation of two weeks between the first and second quarters at Christmas; the remaining two weeks' vacation for that year is given during the summer months. A three months' vacation will be allowed during the three years. Vacations may not be limited to the summer, but may be assigned at any time during the year. This may be necessary to insure the most effective correlation of theory and practice.

The instruction in the three-year program, while necessarily less extensive than in the five-year program, is no less thorough. The technical courses which have to do with bedside care are identical for both programs.

## DESCRIPTION OF THE COURSE OF STUDY

### ANATOMY

This course consists of lectures, freely illustrated by blackboard drawings and lantern-slide projections; of laboratory work, consisting of a study of dissections and microscopic sections; and of lectures and demonstrations of the histology of tissues and organs and the developmental stages in so far as such study is helpful in understanding the structure of the body.

DR. HOLLINSHEAD, MISS GARDINER

### PHYSIOLOGY

The functions of the tissues, organs, and systems are closely correlated with the study of the structure of the body. Physiological processes of interest to the nurse are stressed by lectures, recitations, and demonstrations.

DR. EADIE, DR. DICK, MISS GARDINER

### CHEMISTRY

The aim of this course is to prepare the student for the application of chemistry to nutrition and for the simpler chemical diagnostic tests. The lectures are supplemented by typical laboratory experiments and discussion of the elements of inorganic chemistry. Particular emphasis is laid upon relationships rather than upon isolated facts. The facts of chemistry of the carbon compounds are treated with their relationship to the chief types of food stuff. The chemical principles involved in digestion, in absorption, and in the metabolism of fats, proteins, and carbohydrates are studied in relationship to future work.

DR. TAYLOR, MISS GARDINER

### BACTERIOLOGY

A study of the microscopic organisms with special attention to the fundamental principles of sanitary science; the relation of pathogenic organisms to the prevention, spread, and control of communicable disease. Laboratory experiments deals with practical nursing problems.

DR. MARTIN, MISS GARDINER

### PATHOLOGY

A study of the principal causes leading to disease, the nature of disease processes, and the importance of the various methods of clinical diagnosis. An understanding of diagnostic measures allows the student to appreciate the need of careful observation of symptoms, care in preparation of specimens, and intelligence in the giving of treatments. Lectures, demonstrations, and discussion.

DR. SPRUNT, MISS HOLLEMAN

### ENGLISH

**English I, II.**—During the first quarter emphasis is placed upon grammar and composition. In the second quarter the course includes a general survey of American literature and special references to the literature of interest within the medical and nursing profession.

MRS. GRAY



## HYGIENE

**Personal Hygiene.**—This course gives the student the fundamental laws of health with relation to the teaching function of the nurse; emphasis is laid upon the importance of health and the development of a rational attitude towards the whole question of health preservation and disease prevention.

MISS GARDINER

**Posture.**—The student is taught the mechanical use of her body, and special exercises are stressed which tend toward muscular development. Emphasis is given to corrective gymnastics through laboratory study of faulty posture, deviation of the spine, and weak feet.

MISS CARTER

**Preventive Medicine and Public Health.**—The course is designed to give the student an understanding of Public Health Nursing in its relation to the modern health program. It includes the history and principles of Public Health Nursing; problems in special field, i.e., tuberculosis, infant welfare; case work and the technique of home visiting, the keeping of records and problems of administration. It also deals with the principles of sanitary science, and the application of these principles to water, food supply, and disposal of sewage and garbage.

DR. EPPERSON AND ASSISTANTS, MISS GARDINER

## MEDICINE

**Medical Diseases and Medical Nursing.**—The course is designed to present a general survey of the field of medicine and metabolism, including etiology, pathology, symptoms, complications, treatment of disease. Emphasis also is laid upon prevention and special nursing care of each disease.

DR. QUERY, MISS BURNHAM

**Communicable Diseases.**—Lectures and clinics deal with communicable diseases, modes of transmission, and general symptomatology. Complications and prevention are emphasized. Classes and demonstrations of nursing procedure follow the lectures.

DR. MCBRYDE, MISS BURNHAM

**Dermatology.**—The course reviews the anatomy of the skin and outlines its pathology. It includes a description of the more common skin diseases; their prevention, treatment, and control; and related nursing procedures.

DR. PERSONS, MISS BURNHAM

## SPECIAL THERAPEUTICS

Within this group of lectures and nursing demonstrations are to be found those dealing with X-ray, dental hygiene, allergy, and basal metabolism.

**X-ray.**—The course consists of lectures, demonstrations of machines, exhibitions of films illustrating the therapeutic value of the X-ray and radium, and a discussion of the nursing procedures related to the treatments.

DR. REEVES, MISS BURNHAM

**Dental Hygiene.**—Lectures and demonstrations are given on the principles underlying dentition, the care of the normal mouth, the etiology, symptoms, and treatment of the more common surgical and medical conditions relative to the mouth, and methods of prevention and nursing care.

DR. ATWOOD, MISS BURNHAM

**Allergy.**—The student is instructed in the more recent data concerning the many idiosyncrasies.

DR. HANSEN, MISS BURNHAM

**Basal Metabolism.**—These lectures are given to insure an understanding of the principles and uses of basal metabolism.

DR. JOHNSTON, MISS BURNHAM

## NURSING

**History of Nursing.**—The course consists of lectures, recitations, lantern slides, and collateral reading covering the growth and development of nursing from the earliest ages to the present time. Its aim is to arouse interest, to enable the student to appreciate the obstacles that have been overcome in nursing, and to give her a survey of the field she has chosen.

MISS GARDINER

**Principles and Practice of Nursing, Elementary.**—In this course are presented the underlying principles and practice of the elementary nursing procedures as they are related to the care of the patient. Demonstrations and practice develop the skill and technique of the student.

MISS DILL

**Principles and Practice of Nursing, Advanced.**—This course follows the elementary course and includes the more advanced procedures after the student has had some experience in caring for patients. All procedures in both courses are demonstrated and practiced in the classroom, and carried out under supervision in the wards.

MISS DILL

**Ethics.**—The ethical relations of the student to the school and its personnel, to the patient, the hospital, and community are discussed, so that she may meet the problems of the nursing profession.

MISS BAKER

**Hospital Economics.**—A study is made of hospital construction and equipment as related to the efficiency of service, interior furnishings and finishings, heat and ventilating systems, lighting and plumbing systems, cleaning processes, disposal of garbage and waste, refrigeration and air conditioning, the purpose and plan of the laundry, linen and sewing rooms.

MISS DILL

**Case Study.**—The aim is to give an appreciation of the relation of the patient to his social background, a detailed study of the symptoms, treatment, medical and nursing care. The ward practice is correlated with classroom teaching. The interpretation of signs and symptoms is encouraged, the growth of the scientific attitude is fostered, and the actual nursing care is improved by stimulating a keener interest in the individual care of the patient.

MISS BURNHAM

**Senior Demonstrations.**—The course includes a review of former demonstrations of nursing procedures and gives an opportunity to incorporate the newer methods which have been adopted.

MISS DILL, SUPERVISORS

**Professional Problems.**—Problems which will be presented to the student after graduation are discussed with the aim of awakening professional interest and providing knowledge of professional activities.

MISS BAKER

**Senior Seminar.**—Subjects allied to nursing of particular interest or inspiration to the graduating class are discussed.

MISS GARDINER, MISS DILL, MISS NESTER

## NUTRITION

**Nutrition and Cookery.**—This course includes the principles and methods of simple cookery for well and ill individuals, nutritive value of food, arrangement of a balanced diet for patients of varying needs, and the physiological processes of digestion and metabolism.

MRS. MARTIN

**Diet in Disease.**—In this course the modifications of the normal well-balanced diet are presented, as well as the application of the modifications in the treatment of disease due to abnormal conditions of metabolism, and the preparation and serving of such diets.

MRS. MARTIN

## OBSTETRICS AND GYNECOLOGY

**Gynecology and Gynecological Nursing.**—The medical and surgical aspects of gynecological diseases, the pathology of the pelvis, operations, and treatments are presented. Classes follow the lectures with demonstrations and discussion.

DR. CARTER, MISS IRVINE

**Obstetrics and Obstetrical Nursing.**—The physiological aspects of pregnancy, labor and the puerperium, the care of the newborn are taught, and special emphasis is placed upon the social aspect of the obstetrical work. The lectures are followed with clinics and nursing procedures.

DR. CARTER, MISS IRVINE

## PEDIATRICS

**Pediatrics and Pediatric Nursing.**—The normal child is studied, and also the diseases affecting infants and children, their treatment, nursing care, and prevention. Lecture periods are followed by demonstrations.

DR. MCBRYDE, MISS SHERWOOD

## PHARMACOLOGY

**Elementary Pharmacology.**—This course includes the study of the systems of measurement, signs, symbols, and rules governing the administration of drugs, and the source and use of the common antiseptics and disinfectants. Practice in preparation of solutions and forms is an introduction to further study of materia medica and therapeutics.

MISS GARDINER

**Materia Medica, Advanced.**—The course is a continuation of the elementary course. The pharmacological action of drugs and remedial agents is studied. Attention is directed to the group as a whole rather than to a detailed study of separate drugs. Specific facts concerning individual drugs are studied only as they have a direct bearing upon the practical work of the nurse.

MISS GARDINER

## PHYSIOTHERAPY

**Physiotherapy.**—The history of massage, nomenclature, and fundamental principles, the physiological effects and therapeutic uses, and the principles involved in hydrotherapy and actionotherapy are studied.

MISS GORDON

## PSYCHOLOGY

**Psychology.**—The course consists of lectures on and class discussions of the fundamental principles underlying human conduct, together with an understanding of normal and ill individuals. The nature and value of instincts, emotions, and the development of personality are discussed. The student is given a better understanding of individual differences in dealing with people in general and with the patient in particular.

DR. LUNDHOLM

**Mental Hygiene.**—An attempt is made to aid the student in making the necessary adjustments to her new environment, and to recognize her own personal needs, as well as to interpret the underlying principles of psychology of the behavior of the individual with whom she is associated.

MISS GARDINER

**Neurology and Psychiatry.**—The aim of this course is to teach the relationship of mental and physical illness, to provide an understanding of the causes of mental disease and disturbances, and to emphasize the more important considerations in the modern treatment and nursing of these diseases.

MISS GARDINER

## SURGERY

**General Surgical Diseases and Surgical Nursing.**—The aim is to give the student a practical understanding of the cause, symptoms, prevention, and treatment of the surgical conditions; to assist the surgeon efficiently; and to be able to act promptly and wisely in emergencies. Classes and demonstrations in nursing care follow the lectures.

DR. JONES, MISS HOLLEMAN

**Orthopedics.**—The course consists of lectures on the more common orthopedic conditions. The principal treatments and nursing care are emphasized; and the use and application of appliances, plaster casts, splints, and braces are demonstrated.

DR. RANEY, MISS HOLLEMAN

**Urology.**—The course includes lectures on urological diseases and conditions, and the principal treatments and nursing care are emphasized.

DR. ALYEA, MISS HOLLEMAN

## OPERATING TECHNIQUE

This series of lectures and demonstrations deals with the organization and administration of an operating-room service; its equipment and technique; instruction in making, sterilizing, and using supplies; care of instruments and appliances; principles and practice of asepsis and antiseptics; preparation for operations; and the routine of assisting at operations.

MISS BATCHELDER

## OTOLOGY, RHINOLOGY, AND LARYNGOLOGY

The aim is to give an understanding of the care of the normal ear, nose, and throat, their diseases, the preoperative and postoperative care, and the nursing procedures related to them.

DR. EAGLE, MISS GARDINER

## OPHTHALMOLOGY

The anatomy and physiology of the eye, injuries and diseases of the eye with their causes, symptoms, and treatment, and the related nursing procedures are taught.

DR. ANDERSON, MISS GARDINER

## SOCIAL SERVICE

The historical background for the appreciation of social work is presented, and the social and economic factors concerning the patient's condition are emphasized.

Excursions are made to local institutions to obtain a better understanding of these problems.

MR. STANLEY AND ASSISTANTS, MISS GARDINER

## SCHEDULE OF CURRICULUM—THREE-YEAR COURSE

## FIRST YEAR

<i>Autumn Quarter</i>				<i>Winter Quarter</i>			
	Lect., Class	Hours			Lect., Class	Hours	
		Lab.	Total			Lab.	Total
Anatomy .....	27	63	90	Principles and			
Physiology .....	22		22	Practice of			
Chemistry .....	33	22	55	Nursing, Elem.	44	55	99
History of				Bacteriology ....	22	22	44
Nursing .....	33		33	Pharmacology,			
Psychology .....	22		22	Elem. ....	22	11	33
Personal				Nutrition and			
Hygiene .....	22		22	Cookery .....	22	22	44
English .....	33		33	Ethics .....	11		11
Principles and				English .....	33		33
Practice of							
Nursing .....	11	11	22				
Hospital							
Economics ....	11		11				
	214	96	310		154	110	264

Physical Education 2 hours a week the first and second quarters

<i>Spring Quarter</i>				<i>Summer Quarter</i>	
	Lect., Class	Hours			
		Lab.	Total		
Principles and				Vacation .....	4 weeks
Practice of				Ward Practice .....	8 hours daily
Nursing .....	33	33	66		
Case Study .....	6	5	11		
Physiotherapy ..	4	12	16		
Materia Medica ..	33		33		
Diet in Disease ..	44		44		
	120	50	170		

## SECOND YEAR

*Autumn Quarter*

	Hours	
	Lect., Class	Total
Pathology .....	22	22
Medicine .....	33	33
Surgery .....	33	33
Operating Technique ....	11	11
Orthopedics ....	22	22
	<u>121</u>	<u>121</u>

*Winter Quarter*

	Hours	
	Lect., Class	Total
Gynecology .....	22	22
Urology .....	22	22
Special Therapeutics ..	22	22
Communicable Diseases .....	33	33
	<u>99</u>	<u>99</u>

*Spring Quarter*

	Hours	
	Lect., Class	Lab. Total
Mental Hygiene..	22	22
Ear, Nose, Throat .....	22	22
	<u>44</u>	<u>44</u>

*Summer Quarter*

Ward Practice .....	8 hours daily
Vacation .....	4 weeks

## THIRD YEAR

*Autumn Quarter*

	Hours	
	Lect., Class	
Obstetrics .....	44	
Pediatrics .....	44	
	<u>88</u>	

*Winter Quarter*

	Hours	
	Lect., Class	
Psychiatry .....	33	
Eye .....	11	
Skin .....	11	
Senior Demonstrations .....	11	
	<u>66</u>	

*Spring Quarter*

	Hours	
	Lect., Class	
Professional Problems .....	11	
Preventive Medicine and Public Health .....	22	
Social Service .....	22	
Senior Seminar .....	11	
	<u>66</u>	

*Summer Quarter*

Vacation .....	4 weeks
Ward Practice .....	8 hours daily

Clinical Experience After the  
First Six Months

Medical Wards .....	6
Surgical Wards .....	6½
Diet Kitchen .....	1½
Gynecological Nursing .....	2
Operating Room .....	3
Out Patient Clinics .....	1
Private Wards .....	1
Obstetrical Department .....	3
Pediatrics Department .....	3
	<u>27</u>

In addition, there are a preparatory period of six months and a vacation period of three months, making a total of thirty-six months.



## THE FIVE-YEAR COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE AND GRADUATE IN NURSING

In order to meet the needs of the student, the five-year course leading to the degree of Bachelor of Science in Nursing and Graduate in Nursing has been planned in two groups.

In the first group the course is for the students completing two years of college work before entering the School of Nursing.

Group two is for students who plan to complete their two years of college work following their nursing education.

Whenever possible, the student should elect the five-year course, taking the two years of college work preceding the three years in the School of Nursing. Conferences may be planned to give the student a better understanding of the field she has chosen.

### GROUP I

The aim is to give the student in her first two years an introduction to the general cultural subjects which are considered fundamental, and to give her a better foundation in the science of nursing.

### SUGGESTIONS FOR FIVE-YEAR COURSE

#### FIRST YEAR

<i>First Semester</i>	S.H.	<i>Second Semester</i>	S.H.
English 1 .....	3	English 2 or 4 .....	3
Language .....	3	Language .....	3
History 1 .....	3	History 2 .....	3
Chemistry 1 .....	4	Chemistry 2 .....	4
Mathematics 3 .....	3	Education 8 .....	3
	<hr/> 16		<hr/> 16

#### SECOND YEAR

<i>First Semester</i>	S.H.	<i>Second Semester</i>	S.H.
English .....	3	English .....	3
Language .....	3	Language .....	3
Zoology .....	4	Zoology .....	4
Sociology 91 .....	3	Sociology 92 .....	3
History 91 .....	3	Psychology 101 .....	3
	<hr/> 16		<hr/> 16

Physical Education  
Nursing Conference

## GROUP II

In this group the student enters the School of Nursing for three years and upon the completion of her nursing education enters the University to fulfill the following requirements leading to the degree of Bachelor of Science in Nursing and Graduate in Nursing.

The students will be required to complete sixty (60) semester-hours, thirty (30) of which must be in the work approved for Seniors.

She must complete eighteen to twenty-four (18-24) semester-hours in a major subject either in the division of Mathematics, Psychology, or Natural Science. The work in this division must not total more than thirty (30) semester-hours.

The total of thirty (30) semester-hours will also be required in the divisions of the Humanities, Social Science, and History.

At least twelve (12) semester-hours in each of these divisions will be required of the student.

Students will be allowed to take a maximum of six (6) semester-hours of Freshman work for credit. They must also meet the University requirements concerning quality-points.

## GRADUATES OF THE DUKE UNIVERSITY SCHOOL OF NURSING

Arnold, Aldine.....	1933.....	City Hospital Martinsburg, W. Va.
Atkinson, Pauline.....	1937.....	Duke Hospital
Barbee, Mrs. J. T.....	1935.....	407 Alterview Ave., Ghent (Margaret Davey) Roanoke, Va.
Bell, Joyce.....	1937.....	Duke Hospital
Bennett, Mrs. Jack.....	1935.....	3329 North 15th Street (Maxine Shaddy) Philadelphia, Pa.
Black, Frances.....	1937.....	Duke Hospital
Blakely, Margie Dean.....	1937.....	Duke Hospital
Boone, Nellie.....	1935.....	Emergency Hospital Washington, D. C.
Bradshaw, Julia.....	1934.....	Duke Hospital
Brinkley, Gladys.....	1933.....	1911 Sunset Drive (Mrs. J. F. Stuckey) Raleigh, N. C.
Brooks, Ida.....	1937.....	Duke Hospital
Bryant, Hazel.....	1937.....	County Health Office Monk's Corner, S. C.
Cadle, Evelyn.....	1936.....	Duke Hospital
Caldwell, Faire.....	1934.....	Duke Hospital
Camp, Delores.....	1935.....	10 Aycock Apt., Trinity Avenue Durham, N. C.
Carson, Bonnie.....	1934.....	Vance Apts., Dacian Ave. Durham, N. C.
Carter, Mary I.....	1935.....	918 West King Street (Mrs. Charles Gay) Martinsburg, W. Va.
Cates, Ona Maude.....	1936.....	Duke Hospital
Chambers, Mrs. Robert.....	1933.....	Durham, N. C. (Anne Norton) 145 Pinecrest Road
Cheek, Mrs. Clyde.....	1934.....	1911 Yearby Avenue (Gretchen Johnson) Durham, N. C.
Chittenden, Eleanor.....	1935.....	1910 University Drive (Mrs. E. E. Menefee) Durham, N. C.



Clapp, Elizabeth.....	1935.....	Norwalk General Hospital Norwalk, Conn.
Cobb, Zula.....	1934.....	Children's Hospital Washington, D. C.
Collier, Mrs. Herbert.....	1936.....	3319 Woodrow Avenue Richmond, Va.
(Margaret Zirkle)		
Corbett, Mary Elizabeth.....	1936.....	Vance Apts., Dacian Avenue Durham, N. C.
(Mrs. R. W. Postlethwaite)		
Cotter, Ethel.....	1933.....	Parkview Hospital Rocky Mount, N. C.
Council, Mrs. L. C.....	1935.....	Oakville, Tenn.
(Ida Parker)		
Cranford, Kathryn.....	1934.....	N. C. Orthopedic Hospital Gastonia, N. C.
Crutchfield, Ruth.....	1935.....	504 Grove Street Danville, Va.
(Mrs. W. P. Fields)		
Davey, Margaret.....	1935.....	407 Alterview Avenue, Ghent Roanoke, Va.
(Mrs. J. T. Barbee)		
Denholm, Mrs. John S.....	1934.....	Duke Hospital (Gladys McBane)
Dobbin, Louise.....	1934.....	Emergency Hospital Washington, D. C.
Doolittle, Mrs. Vincent.....	1933.....	Rockingham, N. C.
(Emma Thrower)		
Estes, Frances.....	1937.....	726 Napier Avenue Macon, Ga.
(Mrs. Robert Regan)		
Evans, Elizabeth.....	1933.....	Duke Hospital
Feagans, Hilda.....	1935.....	Colony, Va.
Fields, Mrs. W. P.....	1935.....	504 Grove Street Danville, Va.
(Ruth Crutchfield)		
Forrest, Margaret.....	1935.....	10 Aycock Apt., Trinity Avenue Durham, N. C.
Fox, June.....	1935.....	3222 Burnette Avenue Cincinnati, Ohio
(Mrs. Harold Schiro)		
Gambill, Ruth.....	1936.....	Vance Apts., Dacian Avenue Durham, N. C.
Gay, Mrs. Charles.....	1935.....	918 West King Street Martinsburg, W. Va.
(Mary I. Carter)		
Gillam Hazel.....	1937.....	Duke Hospital
Gladstone, Annie Laurie.....	1937.....	Duke Hospital
Goodman, Eunice.....	1934.....	Rowan Memorial Hospital Salisbury, N. C.
Green, Mary.....	1933.....	4065 Mississippi Avenue San Diego, Cal.
(Mrs. D. W. Lester)		
Hampton, Julia.....	1937.....	Duke Hospital
Hawfield, Annie Joe.....	1933.....	City Health Department Winston-Salem, N. C.
Henderson, Mrs. Faxon.....	1934.....	Emergency Hospital Washington, D. C.
(Frances Mae Klein)		
Herman, Margaret.....	1934.....	Duke Hospital
Herman, Mary Alice.....	1934.....	Chamberlin Avenue Raleigh, N. C.
(Mrs. H. W. Park)		
High, Christine.....	1933.....	William and Mary College Richmond, Va.
Hines, Margaret L.....	1934.....	McLeansville, N. C.
Hodges, Charlotte.....	1937.....	Duke Hospital
Holleman, Matilda.....	1934.....	Duke Hospital
Holley, Mildred.....	1937.....	Duke Hospital
Hollowell, Maude.....	1935.....	Nurses Cottage No. 1, Veterans' Adm. Facility, Dayton, Ohio

Humphrey, Frankie.....	1935.....	Walterboro, S. C.
Hunter, Frances.....	1936.....	1608 Park Avenue Richmond, Va.
Johnson, Gretchen.....	1934.....	1911 Yearby Avenue Durham, N. C.
(Mrs. Clyde Cheek)		
King, Mary Emily.....	1936.....	County Health Dept. Lenoir, N. C.
Klein, Frances Mae.....	1934.....	Emergency Hospital Washington, D. C.
(Mrs. Faxon Henderson)		
Kuykendal, Margaret.....	1934.....	Duke Hospital
Lester, Mrs. D. W.....	1933.....	4065 Mississippi Avenue San Diego, Cal.
(Mary Green)		
Linberger, Mary Louise.....	1937.....	Duke Hospital
Lopp, Lucille.....	1937.....	Duke Hospital
McAdams, Marie.....	1937.....	Duke Hospital
McBane, Gladys.....	1934.....	Duke Hospital
(Mrs. John S. Denholm)		
McCain, Mary Alice.....	1936.....	2917 Braiton Street Columbia, S. C.
McDavid, Virginia.....	1937.....	Duke Hospital
McLaughlin, Louise.....	1935.....	10 Aycock Apt., Trinity Avenue Durham, N. C.
Mann, Elizabeth.....	1933.....	Children's Hospital Washington, D. C.
Marr, Leta.....	1937.....	Duke Hospital
Marshall, Mrs. Jim.....	1936.....	Baptist Hospital Winston-Salem, N. C.
(Virida Parks)		
Massenburg, Sue.....	1935.....	Duke Hospital
Menefee, Mrs. E. E.....	1935.....	1910 University Drive Durham, N. C.
(Eleanor Chittenden)		
Miller, Eleanor.....	1934.....	Emergency Hospital Washington, D. C.
Moore, Elizabeth.....	1934.....	Duke Hospital
Morrison, Lavenia.....	1935.....	28 West Maple Avenue Bound Brook, N. J.
Norton, Anne.....	1933.....	145 Pinecrest Road Durham, N. C.
(Mrs. Robert Chambers)		
Park, Mrs. H. W.....	1934.....	Chamberlin Avenue Raleigh, N. C.
(Mary Alice Herman)		
Parker, Ida.....	1935.....	Oakville, Tenn.
(Mrs. L. B. Council)		
Parks, Virida.....	1936.....	Baptist Hospital, Winston-Salem, N. C.
(Mrs. Jim Marshall)		
Peele, Margaret.....	1937.....	Duke Hospital
Pope, Mrs. George E.....	1936.....	903 Sixth Street Durham, N. C.
(Elizabeth Thompson)		
Postlethwaite, Mrs. R. W.....	1936.....	Vance Apts., Dacian Avenue Durham, N. C.
(Mary E. Corbett)		
Regan, Mrs. Robert.....	1937.....	726 Napier Avenue Macon, Ga.
(Frances Estes)		
Roberts, Mrs. Louis C.....	1933.....	606 Buchanan Blvd. Durham, N. C.
(Jessie Ward)		
Schiro, Mrs. Harold.....	1935.....	3222 Burnette Avenue Cincinnati, Ohio
(June Fox)		
Sharp, Annie Hill.....	1934.....	Duke Hospital
Sheddy, Maxine.....	1935.....	3329 North 15th Street Philadelphia, Pa.
(Mrs. Jack Bennett)		
Strother, Elizabeth.....	1936.....	Veterans' Administration Facility, Nurses Cottage No. 2, Dayton, Ohio

Stuckey, Mrs. J. F.	1933	1911 Sunset Avenue
(Gladys Brinkley)		Raleigh, N. C.
Sugg, Norma	1934	University of Pennsylvania
		Philadelphia, Pa.
Thomas, Vera	1935	Duke Hospital
Thompson, Elizabeth	1936	903 Sixth Street
(Mrs. George E. Pope)		Durham, N. C.
Thrower, Emma	1933	Rockingham, N. C.
(Mrs. Vincent Doolittle)		
Tillett, Grace	1933	Rockingham, N. C.
Uhde, Mrs. George	1934	150 N. Broad Street
(Maurine Whitley)		Philadelphia, Pa.
Ward, Jessie	1933	606 Buchanan Blvd.
(Mrs. L. C. Roberts)		Durham, N. C.
Ware, Frances	1934	Lumberton, N. C.
Wehunt, Rosabelle	1936	Duke Hospital
Whitley, Maurine	1934	150 N. Broad Street
(Mrs. George Uhde)		Philadelphia, Pa.
Wilkinson, Dorothy	1936	Vance Apts., Dacian Avenue
		Durham, N. C.
Williams, Mary	1936	Route 5, Box 402
		Greensboro, N. C.
Wilson, Helen	1933	Buffalo General Hospital
		Buffalo, N. Y.
Wooten, Julia	1937	Duke Hospital
Yarbrough, Pearl	1933	506 Forest Hills Blvd.
		Durham, N. C.
Yates, Virginia	1936	Duke Hospital
Zirkle, Margaret	1936	3319 Woodrow Avenue
(Mrs. Herbert Collier)		Richmond, Va.



# INDEX

Activities Offered .....	10	Gardiner, Ann Henshaw .....	17
Administration, Officers of .....	4	General Information .....	9
Admission Requirements .....	10	Gordon, Mabel Page .....	8, 15
Advisory Committee .....	4	Graduates of Duke University School of Nursing .....	20
Allergy .....	13	Group I, Five-Year Course .....	19
Altwater, Frederick Vernon .....	4	Group II, Five-Year Course .....	20
Alyea, Edwin Pascal .....	8, 16	Gynecology .....	15
Anatomy .....	12	Hansen-Prüss, Oscar C. E. ....	13
Anderson, William Banks .....	8, 17	Head Nurses .....	6
Arena, J. Morris .....	8	Health Regulations and Physical Education .....	9
Assistant Supervisors and Head Nurses .....	6	Hinves, Edith .....	6
Autumn Quarter .....		Holleman, Matilda E. ....	6, 16
First Year .....	17	Hollinshead, William Henry .....	8, 12
Second Year .....	18	Hospital Economics .....	14
Third Year .....	18	Hygiene .....	13
Bacteriology .....	12	Information, General .....	9
Baker, Bessie .....	4, 5, 14	Instruction, Facilities for .....	9
Basal Metabolism .....	14	Irvine, Jane .....	6, 15
Batchelder, Marion Frances .....	6, 16	Johnston, Christopher .....	14
Burnham, Hilda .....	5, 13, 14	Jones, Robert Randolph, Jr. ....	8, 16
Calendar .....	3	Libraries .....	9
Carter, Bayard .....	8, 15	Loy, Credith .....	6
Carter, Margaret Edgecomb .....	8, 13	Lundholm, Helge .....	8, 16
Case Study .....	14	McBryde, Angus Murdoch .....	8, 15
Chemistry .....	12	Markham, Charles Blackwell .....	4
Clinical Experience after First Six Months .....	18	Martin, Donald Stover .....	8, 12
Committees .....	4	Martin, Elsie Wilson .....	8, 15
Committee, Advisory .....	4	Materia Medica .....	15
Committee, Standards .....	4	Medicine .....	13
Committee, Student Work .....	4	Mental Hygiene .....	16
Communicable Diseases .....	13	Nester, Garnett Anne .....	4, 5, 14
Course of Study, Description of the .....	12	Neurology and Psychiatry .....	16
Curriculum, Schedule of .....	17	Nursing .....	14
Davison, Wilburt Cornell .....	4	Nutrition .....	15
Degree of Bachelor of Science and Graduate in Nursing, The Five-Year Course Leading to .....	19	Obstetrics .....	15
Dental Hygiene .....	13	Officers of Administration .....	4
Dermatology .....	13	Operating Technique .....	16
Description, of the Course of Study .....	12	Ophthalmology .....	17
Dick, MacDonald .....	8, 12	Organization .....	9
Diet in Disease .....	15	Orthopedics .....	16
Dill, Isabel Hunter .....	4, 5, 14	Otology, Rhinology, and Laryngology ..	16
Eadie, George Sharp .....	8, 12	Pathology .....	12
Eagle, Watt Weems .....	8, 16	Pediatrics .....	15
English .....	12	Persons, Elbert Lapsley .....	13
Epperson, J. H. ....	13	Pharmacology .....	15
Ethics .....	14	Physical Education .....	9
Expenses .....	10	Physiology .....	12
Facilities for Instruction .....	9	Physiotherapy .....	15
Faculty of the School of Nursing .....	5	Posture .....	13
Few, William Preston .....	4	Preventive Medicine and Public Health ..	13
Flowers, Robert Lee .....	4	Principles and Practice of Nursing .....	14
First Year .....	17	Professional Problems .....	14
Autumn Quarter .....	17	Psychology .....	16
Five-Year Course .....	19	Public Health .....	13
Spring Quarter .....	17	Readmission .....	11
Summer Quarter .....	17	Reeves, Robert James .....	13
Winter Quarter .....	17	Requirements .....	10
Five-Year Course, First Year .....	19	Residence .....	9
Group I .....	19	Schedule of Curriculum .....	17
Group II .....	20	School of Nursing, Faculty of the .....	5
Leading to the Degree of Bachelor of Science and Graduate in Nursing ..	19		
Second Year .....	19		

School of Nursing, The .....	9	Second-Year .....	18
School of Nursing and Hospital Calendar .....	3	Third-Year .....	18
Second Year .....	18	Surgery .....	16
Autumn Quarter .....	18		
Five-Year Course .....	19	Taylor, Haywood Maurice .....	8, 12
Spring Quarter .....	18	Third Year .....	18
Summer Quarter .....	18	Autumn Quarter .....	18
Winter Quarter .....	18	Spring Quarter .....	18
Senior Demonstrations .....	14	Summer Quarter .....	18
Senior Seminar .....	14	Winter Quarter .....	18
Sherwood, Mildred .....	6, 15	Three-Year Course .....	11, 17
Social Service .....	17		
Special Therapeutics .....	13	Urology .....	16
Spring Quarter .....			
First-Year .....	17	Wannamaker, William Hanc .....	4
Second-Year .....	18	White, Julia Elizabeth .....	4, 5
Third-Year .....	18	Winter Quarter .....	
Sprung, Douglas Hamilton .....	8, 12	First-Year .....	17
Standards Committee .....	4	Second-Year .....	18
Stanley, Mr. ....	17	Third-Year .....	18
Student Work Committee .....	4	Withdrawal .....	11
Summer Quarter .....			
First-Year .....	17	X-ray .....	13











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February, 1938

NUMBER 2

# BULLETIN OF DUKE UNIVERSITY

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*The School of Medicine*

1938



PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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BULLETIN  
OF  
DUKE UNIVERSITY  
THE SCHOOL OF MEDICINE



1938

DURHAM, NORTH CAROLINA

1938

## FOREWORD

This bulletin is issued for prospective medical students. Admissions into any class are made only on the understanding that every decision of the Executive Committee shall apply to all students, even though subsequent to their enrollment in the School. At frequent intervals the Executive Committee reviews the records of all students, and those whose progress has been unsatisfactory may be required to leave the School. ONLY THOSE WILL BE ADVANCED WHO, IN THE OPINION OF THE EXECUTIVE COMMITTEE, GIVE PROMISE OF BEING A CREDIT TO THEMSELVES AND TO THE SCHOOL. Students who wish to study at other medical schools during one or more quarters must have their programs approved, in advance, by the Curriculum Committee and, on their return, must present evidence that they have completed successfully work comparable to that of the curriculum during the quarters in which they were away.

## SCHOOL OF MEDICINE CALENDAR, 1938-1939

1938

- Jan. 3. Monday—Registration of students, and Winter Quarter begins.  
Feb. 22. Washington's Birthday: a holiday.  
March 19. Saturday—Winter Quarter ends.  
March 28. Monday—Registration of students, and Spring Quarter begins.  
April 18. Easter Monday: a holiday.  
June 6. Monday—Commencement.  
June 11. Saturday—Spring Quarter ends.  
June 20. Monday—Registration of students, and Summer Quarter begins (Junior-Senior students).  
July 4. Monday—Independence Day: a holiday.  
Sept. 3. Saturday—Summer Quarter ends.  
Sept. 29. Thursday—Registration of students, and Autumn Quarter begins.  
Nov. 24-27. Thursday-Sunday—Thanksgiving Holidays.  
Dec. 17. Saturday—Autumn Quarter ends.

1939

- Jan. 2. Monday—Registration of students, and Winter Quarter begins.  
Feb. 22. Wednesday—Washington's Birthday: a holiday.  
March 18. Saturday—Winter Quarter ends.  
March 27. Monday—Registration of students, and Spring Quarter begins.  
April 10. Easter Monday: a holiday.  
June 5. Monday—Commencement.  
June 10. Saturday—Spring Quarter ends.  
June 19. Monday—Registration of students, and Summer Quarter begins (Junior-Senior students).  
July 4. Tuesday—Independence Day: a holiday.  
Sept. 2. Saturday—Summer Quarter ends.  
Sept. 28. Thursday—Registration of students, and Autumn Quarter begins.  
Nov. 30-Dec. 3. Thursday-Sunday—Thanksgiving Holidays.  
Dec. 16. Saturday—Autumn Quarter ends.

The Treasurer's Office is on the third floor of the Administration Building on the West Campus, and is open daily, except Sunday, from 9 A.M. to 4:30 P.M.

The office of the Recorder and Dean of the School of Medicine is in Room M 133 of the Medical School, and is open daily, except Sunday, from 8:15 A.M. to 5 P.M.

For any further information, address THE DEAN, DUKE UNIVERSITY SCHOOL OF MEDICINE, DURHAM, N. C.



## OFFICERS OF ADMINISTRATION

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*Comptroller*

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*Assistant Treasurer*

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*Dean of the School of Medicine*

HELEN I. STOCKSDALE  
*Recorder of the School of Medicine*

## FACULTY OF THE SCHOOL OF MEDICINE

F. VERNON ALTVATER, A.B., A.M., *Associate in Hospital Administration*.  
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S.B., Princeton, 1919; M.D., Johns Hopkins, 1923; Int. in Med.; Int. and Ass't. Res. in Surg.; Ass't. Res. and Res. in Urol., Johns Hopkins Hosp., 1923-1929; Ass't. and Instr. in Surg., and Instr. in Urol., Johns Hopkins Med. Sch., 1925-1930; *Urologist*, Duke Hospital, 1929—

WILLIAM BANKS ANDERSON, A.B., M.D., *Associate Professor of Surgery in Charge of Ophthalmology*

A.B., Univ. of North Carolina, 1920; M.D., Johns Hopkins, 1924; Int. Union Memorial Hospital, Baltimore, 1924-1925; Int., Massachusetts Eye and Ear Infirmary, 1925-1927; *Ophthalmologist*, Duke Hospital, 1930—

JAY MORRIS ARENA, B.S., M.D., *Associate in Pediatrics*

B.S., West Virginia, 1930; M.D., Duke, 1932; Int. in Ped., Johns Hopkins Hosp., 1932-1933; Ass't. and Instr. in Pediatrics, Duke Med. Sch., 1933-1935; Ass't. Res., Res. and *Assistant Pediatrician*, Duke Hospital, 1933—

THEODORE W. ATWOOD, A.B., D.M.D., *Associate in Dentistry*

A.B., Duke, 1928; D.M.D., Harvard, 1932; *Dentist*, Duke Hospital, 1934—

ROGER DENIO BAKER, A.B., M.D., *Assistant Professor of Pathology*

A.B., Wisconsin, 1924; M.D., Harvard, 1928; Ass't. Res. Pathologist, Johns Hopkins Hosp., 1928-1930; Ass't. in Path., Johns Hopkins Med. Sch., 1928-1929; Instr., 1929-1930; Instr. in Anat., and Instr. in Path., Duke Med. Sch., 1930-1934; *Assistant Pathologist*, Duke Hospital, 1932—

JOSEPH W. BEARD, B.S., M.D., *Assistant Professor of Surgery in Charge of Experimental Surgery*

B.S., Univ. of Chicago, 1926; M.D., Vanderbilt, 1929; Ass't. and Instr. in Surg., Vanderbilt Univ. Med. Sch., 1930-1932; Int., Ass't. Res. and Res. in Surg., Vanderbilt Univ. Hosp., 1929-1932; Ass't. in Path. and Bact., Rockefeller Institute for Med. Research, N. Y. City, 1932-1935; Assoc. in Path. and Bact., Rockefeller Institute for Med. Research, Princeton, 1935-1937; *Assistant Surgeon*, Duke Hospital, 1937—

FREDERICK BERNHEIM, A.B., Ph.D., *Associate Professor of Physiology and Pharmacology*

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MARY LILIAS CHRISTIAN BERNHEIM, B.A., M.A., Ph.D., *Assistant Professor of Biochemistry*

B.A., M.A., and Ph.D., Cambridge, 1925, 1927, and 1929; Fellow Newnham College, 1927-1930.

WILLIAM ZIEGLER BRADFORD, B.S., M.D., *Director, Outside Obstetric Service, Charlotte, N. C.*

B.S., Davidson, 1924; M.D., Pennsylvania, 1928; Int., Howard Hosp., Graduate Hosp., Long Island College Hosp., Bellevue Hosp., 1928-1932.

BAYARD CARTER, A.B., B.A., M.A., M.D., *Professor of Obstetrics and Gynecology*

A.B., Delaware, 1920; B.A. and M.A., Oxford, 1923 and 1932; M.D., Johns Hopkins, 1925; member Obs. and Gyn. staff of New Haven Hosp. and Yale Med. Sch., 1925-1929; Assoc. Prof. Obs. and Gyn., and Head of Dept., Univ. of Va. Med. Dept., 1929-1931; *Obstetrician and Gynecologist*, Duke Hospital, 1931—

NORMAN FRANCIS CONANT, B.S., A.M., Ph.D., *Associate in Bacteriology and Mycology*

B.S., Bates, 1930; A.M. and Ph.D., Harvard, 1931 and 1933; Research Fellow, Laboratoire de Parasitologie, Fac. de Medecine, Paris, 1933-1934; Research Ass't., Harvard Med. Sch. and Mass. Gen'l. Hosp., Jan. 1 to Oct. 1, 1935.

THOMAS BUCKINGHAM COOLIDGE, B.A., Ph.D., M.D., *Associate in Biochemistry*

B.A. and M.D., Harvard, 1923 and 1927; Ph.D., Columbia, 1937; Int. in Med., Massachusetts General Hosp., 1927-1929; Tutor and Research Ass't. in Chem., Harvard College, 1929-1932; Ass't. in Biochem., College of Physicians & Surgeons, 1934-1935; Instr. in Biochem., Duke Med. Sch., 1935-1937.

RAYMOND S. CRISPELL, A.B., M.D., *Associate Professor of Medicine in Charge of Neuropsychiatry*

A.B. and M.D., Cornell, 1917, 1920; Staff, Bloomingdale Hospital and Instr. in Neuroanatomy, Cornell, 1920-1923; House Physician and Resident Neurologist, Bellevue Hosp., N. Y., 1921-1923; Fellow in Neurology, Univ. of Utrecht, Holland, 1925; Medical Director, Sahler Sanitarium, 1926-1933; *Neuropsychiatrist, Duke Hospital, 1933—*

WILLIAM JOHN DANN, B.Sc., Ph.D., *Assistant Professor of Physiology and Nutrition*

B.Sc., Sheffield, 1925; Ph.D., Cambridge, 1930; Med. Research Scholar, Worshipful Co. of Grocers, 1931-1933; Beit Mem. Research Fellow, 1933.

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D., *Dean of the School of Medicine and Professor of Pediatrics*

A.B., Princeton, 1913; B.A., B.Sc., and M.A., Oxford, 1915, 1916 and 1919; M.D., Johns Hopkins, 1917; D.Sc., Wake Forest, 1932; Int., Radcliffe Infirmary, 1915-1916; Ass't. Res., Assoc. Ped., Acting Pediatrician in Charge, Johns Hopkins Hosp., 1919-1927; Instr., Assoc., Assoc. Prof., Acting Head of Dept. of Ped., and Ass't. Dean, Johns Hopkins Med. Sch., 1919-1927; *Pediatrician, Duke Hospital, 1927—*

MACDONALD DICK, B.A., M.A., M.D., *Associate in Medicine, Physiology, and Pharmacology*

B.A. and M.A., Virginia, 1922 and 1923; M.D., Johns Hopkins, 1928; Int. and Ass't. Resident, Vanderbilt Univ. Hosp., 1928-1930; Ass't. in Path. and Bact., Rockefeller Institute, 1930-1932; *Assistant Physician, Duke Hospital, 1932—*

GEORGE SHARP EADIE, M.A., M.B., Ph.D., *Professor of Physiology and Pharmacology*

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A.B., Univ. of North Carolina, 1918; Grad. student, *ibid.*, 1918-1919; M.D., Johns Hopkins, 1925; Int., Church Home and Infirmary, Baltimore, 1925-1926; Int., Ass't. Res. and Res. in Laryngol., Johns Hopkins Hosp., 1926-1929; Ass't. and Instr. in Laryngol., Johns Hopkins Med. Sch., 1927-1930; *Otolaryngologist, Duke Hospital, 1929—*

JOHN WENDELL EVERETT, A.B., Ph.D., *Associate in Anatomy*

A.B., Olivet, 1928; Ph.D., Yale, 1932; Instr. in Biol., Goucher, 1930-1931.

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B.S., Yale, 1924; M.D., Johns Hopkins, 1928; Int. and Ass't. Res. in Surg., Johns Hopkins Hosp., 1928-1929 and 1930-1931; Fellow in Surg., Johns Hopkins Med. Sch., 1929-1930; Ass't., Instr. and Assoc. in Anat. and Surg., Duke Med. Sch., 1931-1937; Ass't. Res. and Res. in Surg., and *Assistant Surgeon, Duke Hospital, 1931—*

WILEY DAVIS FORBUS, A.B., M.D., *Professor of Pathology*

A.B., Washington and Lee, 1916; M.D., Johns Hopkins, 1923; Res. and Assoc. Pathologist, Johns Hopkins Hosp., 1926-1927 and 1929-1930; Guest Ass't., Pathol. Inst., Ludwig Maximilian's Univ., Munich, 1928; Pathol., Baltimore City Hospitals; Consulting Pathologist, Frederick City Hosp., 1925-1930; Ass't., Instr. and Assoc. in Path., Johns Hopkins Med. Sch., 1923-1930; *Pathologist, Duke Hospital, 1929—*

CLARENCE ELLSWORTH GARDNER, JR., A.B., M.D., *Associate Professor of Surgery*

A.B., Wittenberg, 1924; M.D., Johns Hopkins, 1928; Int. and Ass't. Res., Johns Hopkins Hosp., 1928-1930; Ass't. in Surg., Johns Hopkins Med. Sch., 1929-1930; Instr. and Ass't. Professor, Duke Med. Sch., 1930-1935; Resident in Surgery and *Associate Surgeon*, Duke Hospital, 1930—

ROBERT WILLIAMS GRAVES, B.S., M.A., M.D., *Associate in Neurology and Anatomy*

B.S., Davidson, 1926; M.A., Princeton, 1928; M.D., Duke, 1933; Voluntary Ass't., Montreal Neurological Institute, June-Dec., 1933; Int. and Ass't. Res. in Med., New Haven Hosp., 1934-Jan., 1936; Voluntary Ass't., Nat'l. Hosp., Queen Square, London, and Instituto del Cancer, Madrid, Jan.-July, 1936; Instr. in Anat., Duke Med. Sch., 1936-1937; *Assistant Physician*, Duke Hospital, 1937—

EDWIN CROWELL HAMBLE, B.S., M.D., *Associate Professor of Obstetrics and Gynecology*

B.S. and M.D., Virginia, 1921 and 1928; Ass't. Instr. in Pharmacol. and Materia Medica, Baylor Med. Coll., 1922-1926; Int. and Res., Obs. and Gyn., Univ. Va. Hosp., 1928-1930; Clinical Instr. in Obs. and Gyn., Univ. Med. Dept., 1930-1931; *Associate Obstetrician and Gynecologist*, and *Endocrinologist*, Duke Hospital, 1931—

FREDERIC MOIR HANES, A.B., A.M., M.D., *Florence McAlister Professor of Medicine*

A.B., Univ. of North Carolina, 1903; A.M., Harvard, 1904; M.D., Johns Hopkins, 1908; Int., Johns Hopkins Hosp., 1908-1909; Assoc. Prof. of Path., Columbia Univ., and Pathologist, Presbyterian Hosp., N. Y., 1909-1912; Assoc., Rockefeller Institute, 1912-1913; Assoc. Prof. of Medicine, Washington Univ. Med. Dept., 1913-1914; Ass't. in Neurology, Queen Square Hospital, London, 1914; Prof. of Therapeutics, Med. Coll. of Va., 1914-1916; Lt. Col. Commanding Base Hosp. 65, A. E. F., 1917-1918; *Physician*, Duke Hospital, 1931—

OSCAR CARL EDVARD HANSEN-PRÜSS, A.B., M.D., *Associate Professor of Medicine*

A.B., Universidad Mayor de San Marcos, 1919; Voluntary Ass't. in Path., Friedrich Wilhelm Universität, Berlin, 1920-1921; M.D., Johns Hopkins, 1924; Int., Ass't. Res. in Med., and Ass't. Physician, Johns Hopkins Hosp., 1924-1930; Ass't. Instr. and Assoc. in Medicine, Johns Hopkins Med. Sch., 1925-1930; *Assistant and Associate Physician*, Duke Hospital, 1930—

DERYL HART, A.B., A.M., M.D., *Professor of Surgery*

A.B. and A.M., Emory, 1916 and 1917; M.D., Johns Hopkins, 1921; Int. in Surg., Ass't. Res. in Surg. Path., Ass't. Res. Res., and Assoc. Surgeon, Johns Hopkins Hosp., 1921-1930; Ass't. in Path., Instr., and Assoc. in Surg., Johns Hopkins Med. School, 1922-1930; *Surgeon*, Duke Hospital, 1929—

DUNCAN CHARTERIS HETHERINGTON, A.B., M.A., Ph.D., M.D., *Associate Professor of Anatomy*

A.B., Colorado College, 1919; M.A. and Ph.D., Illinois, 1920 and 1922; M.D., Johns Hopkins, 1926; Instr. in Anat., Vanderbilt Med. Sch., 1926-1930.

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CHRISTOPHER JOHNSTON, A.B., M.D., *Assistant Professor of Medicine*

A.B. and M.D., Johns Hopkins, 1922 and 1926; Int. and Ass't. Res. in Med., Johns Hopkins Hosp., 1926-1928; Ass't. in Med., Johns Hopkins Med. Sch., 1927-1928; Ass't. Res. Physician, Hospital of Rockefeller Institute, N. Y., 1928-1930; *Assistant Physician*, Duke Hospital, 1930—

ROBERT RANDOLPH JONES, JR., A.B., M.D., *Assistant Professor of Surgery*

A.B., Davidson, 1924; M.D., Johns Hopkins, 1928; Int. in Med., Strong Mem. Hosp., 1928-1929; Int. in Surg., Johns Hopkins Hosp., 1929-1930; Ass't. and Instr., Duke Med. Sch., 1930-1933; Ass't. Res., Res. in Surgery, and *Assistant Surgeon*, Duke Hospital, 1930—

MALCOLM D. KEMP, M.D., *Associate in Clinical Psychiatry*

M.D., Washington, 1930; Int., rotat., Grasslands Hosp., Valhalla, N. Y., 1930-1931; Ass't. Phys., Spring Grove State Hosp., Catonsville, Md., 1931-1935; Assoc. in Psychiatry, Phipps Clinic, Johns Hopkins Hosp., 1935-1936; Medical Director, The Pinebluff Sanitarium, Pinebluff, N. C., 1936.

WALTER KEMPNER, M.D., *Associate in Medicine*

M.D., Heidelberg, 1927; Research Assoc. and Ass't. to Prof. O. Warburg, Kaiser Wilhelm Institut f. Zellphysiologie, Berlin-Dahlem, 1927-1928 and 1933-1934; Ass't. to Prof. von Bergmann, Med. Clinic, Univ. of Berlin, 1929-1933; *Associate Physician, Duke Hospital, 1934—*

DONALD STOVER MARTIN, A.B., M.D., *Assistant Professor of Bacteriology and Associate in Medicine*

A.B., Johns Hopkins, 1925; M.D., Rochester, 1930; Int. in Ped., Strong Mem. Hosp., 1930-1931; Ass't. in Physiol. and Ass't. in Bact., Rochester Med. Sch., 1926-1927 and 1931-1932; *Associate Bacteriologist, Duke Hospital, 1932—*

WALTER MARX, M.A., Ph.D., *Research Associate in Surgery and Biochemistry*

Dipl.-Ing. (M.A.), Karlsruhe, Germany, 1930; Dr.-Ing. (Ph.D.), Karlsruhe, 1933; Ass't. Instr. f. physikal. Chemie, Technische Hochschule, 1931-1932; Research Fellow, Kaiser Wilhelm Institut f. medizin. Forschung, Heidelberg, 1933-1934; Research Fellow, Mount Sinai Hosp., New York City, 1934-1937.

ANGUS McBRYDE, B.S., M.D., *Assistant Professor of Pediatrics*

B.S., Davidson, 1924; M.D., Pennsylvania, 1928; Int. and Res. in Ped., Univ. of Pennsylvania Hosp., 1928-1930; Ass't. Res. in Ped., Johns Hopkins Hosp. and Ass't. in Ped., Johns Hopkins Med. Sch., 1930-1931; *Assistant Pediatrician, Duke Hospital, 1931—*

PAUL PRESSLY McCAIN, A.B., M.D., *Assistant Professor of Clinical Medicine*

A.B., Erskine, 1907; M.D., Maryland, 1911; Int., Bay View Hosp., Baltimore, 1911-1912; Res. Gaylord Farm Sanat., Wallingford, Conn., 1912-1914; Chief of Med. Service, 1914-1924; and Sup't. North Carolina Tubercul. Sanat., 1924.

FORREST DRAPER McCREA, B.S., M.S., Ph.D., *Associate Professor of Physiology and Pharmacology*

B.S., Purdue, 1918; M.S., Illinois, 1923; Ph.D., Wisconsin, 1927; Instr. in Physiol., Univ. Illinois, 1920-1923; Instr. in Physiol., Wisconsin Med. Sch., 1923-1927; Ass't. Prof. of Physiol. and Pharmacol., Georgia Med. Coll., 1927-1929; Sr. Instr. in Physiol., Western Reserve Med. Sch., 1929-1930.

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A.B., Duke, 1927; M.D., Johns Hopkins, 1931; Res. House Officer in Med., Johns Hopkins Hosp., 1931-1932; Ass't. in Path. and in Med., Johns Hopkins Med. Sch., 1932-1935; Ass't. and *Associate Physician, Duke Hospital, 1935—*

EDWARD STEWART ORGAIN, M.D., *Associate in Medicine and Physiology*

M.D., Virginia, 1930; Int., Ass't. Res. and Res. in Med., Univ. Hospital of Cleveland, 1930-1933; Res. Fellow in Med., assigned to Cardiology, Mass. General Hosp., 1933-1934; *Assistant Physician, Duke Hospital, 1934—*

ARTHUR SPERRY PEARSE, B.S., A.M., Ph.D., *Professor of Zoology*

B.S. and A.M., Nebraska, 1900 and 1904; Ph.D., Harvard, 1908; Austin Teaching Fellow, Harvard, 1907-1908; London School of Hygiene and Tropical Medicine, 1926; Instr. in Zoology, Michigan, 1908-1910; Ass't. Prof., 1910-1911; Assoc. Prof., Philippines, 1911; St. Louis, 1911; Wisconsin, 1911-1912; Assoc. Prof., 1912-1919; Prof., 1919-1927; Prof., Keiogijuku Digaku, Tokyo, 1929-1930.

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B.S., A.M., and Ph.D., Columbia, 1913, 1914, and 1915; Ass't. in Physiol. Chem., Columbia Med. Sch., 1913-1916; Research Chemist, Rockefeller Institute, 1916-1917; Research Biochemist, Hygiene Laboratory, U. S. P. H. S., 1919-1921; Instr. and Assoc. in Med., Johns Hopkins Med. Sch., 1922-1930; Chemist to the Med. Clin., Johns Hopkins Hosp., 1922-1930; *Biochemist, Duke Hospital, 1930—*



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WATSON SMITH RANKIN, M.D., *Lecturer in Preventive Medicine and Public Health*

M.D., Maryland, 1901; Int. and Res. in Path., Univ. of Maryland Hosp., 1901-1903; Dean and Prof. of Path., Wake Forest Coll., 1903-1909; Sec'y., State Board of Health and State Health Officer, North Carolina, 1909-1925; Director of Hosp. and Orphan Section, The Duke Endowment, 1925—

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B.S., Univ. of North Carolina, 1920; M.D., Pennsylvania, 1922; Res. Physician, Univ. of Pa. Settlement House, 1921-1922; Int., Episcopal Hosp., Phila., 1922-1924; Int. and Res. Kensington Hosp. for Women, 1923-1925; Obstetrician, Watts Hospital; Obstetrician, Salvation Army Hospital; Consulting Obstetrician and Gynecologist, Lincoln Hospital; Associate Obstetrician and Gynecologist, Duke Hospital, 1930—

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B.A. and M.D., Virginia, 1918 and 1922; Int. in Med., Ass't. Res. in Surg., Int., Ass't. Res. and Res. in Ortho. Surg., Johns Hopkins Hosp., 1922-1927; Instr. in Ortho. Surg., Johns Hopkins Med. Sch., 1926-1927; Attending Orthopedic Surgeon, four hospitals, Washington, D. C.; Instr. in Ortho., George Washington Univ. Med. Sch., 1927-1930; Orthopedist, Duke Hospital, 1930—

BEVERLEY E. SMITH, B.S., M.D., *Associate in Clinical Psychiatry*

B.S., Mississippi, 1930; M.D., Tulane, 1932; Ass't. Psychiatrist, Bryce Hosp., Tuscaloosa, Ala., 1932-1933; Ass't. Psychiatrist, Phipps Clinic, Johns Hopkins Hosp., 1933-1935; Ass't. Psychiatrist, East Miss. State Hosp., 1935-1936; Ass't. Surgeon, U. S. Pub. H. Serv., Chillicothe, Ohio, 1936-1937; Clinical Director, The Pinebluff Sanitarium, Pinebluff, N. C., 1937.

DAVID TILLERSON SMITH, A.B., M.D., *Professor of Bacteriology, and Associate Professor of Medicine*

A.B., Furman, 1918; M.D., Johns Hopkins, 1922; Int. in Ped., Johns Hopkins Hosp., 1922-1923; Ass't. in Path. and Bact., Rockefeller Institute, 1923-1924; Bacteriologist, Pathologist and Director, Research Laboratory of N. Y. State Hosp. for Tuberculosis, Ray Brook, N. Y., 1924-1930; Bacteriologist and Associate Physician, Duke Hospital, 1930—

SUSAN GOWER SMITH, A.B., M.A., *Associate in Medicine*

A.B., Barnard, 1919; M.A., Columbia, 1924; Chemist, N. Y. State Hosp., 1926-1930.

DOUGLAS HAMILTON SPRUNT, B.S., M.S., M.D., *Associate Professor of Pathology*

B.S., Virginia, 1922; M.D. and M.S., Yale, 1927 and 1929; Acting Res. and Res. in Path., New Haven Hosp., 1927-1929; Instr. in Path., Yale Med. Sch., 1928-1929; Sterling Research Fellow, 1929-1930; Ass't. in Med., Hosp. of Rockefeller Institute, 1930-1932; Associate Pathologist, Duke Hospital, 1932—

\* On leave 1937-38.

FRANCIS HUNTINGTON SWETT, A.B., M.A., Ph.D., *Professor of Anatomy*

A.B., Bates, 1916; M.A., Brown, 1917; Ph.D., Yale, 1922; Instr. and Assoc. in Anat., Johns Hopkins Med. Sch., 1922-1925; Assoc. Prof. of Anat., Vanderbilt Med. Sch., 1925-1930.

HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D., *Assistant Professor of Biochemistry and Toxicology*

B.S., M.S., and Ph.D., Univ. of North Carolina, 1920, 1921, and 1924; Instr. in Chem. and Pharmaceut. Chem., Univ. of North Carolina, 1920-1925; Research Chemist, E. R. Squibb & Sons, and Fisk Rubber Company, 1925-1928; Instr. in Ophthalmol. and Chemist to Wilmer Institute, Johns Hopkins Hosp., 1928-1930; Visiting Fellow in Forensic Med., New York Univ., 1934; *Associate Biochemist and Toxicologist, Duke Hospital, 1930—*

WALTER LEE THOMAS, JR., A.B., M.A., M.D., *Assistant Professor of Obstetrics and Gynecology*

A.B., Lynchburg, 1926; M.A. and M.D., Virginia, 1927 and 1931; Int., Virginia-Mason Hosp., 1930-1931; Ass't. Res. and Res. in Obs. and Gyn., Duke Hosp., 1931-1935; Assistant Obstetrician and Gynecologist, Henry Ford Hosp., 1936-1937; *Assistant Obstetrician, Duke Hospital, 1937—*

BARNES WOODHALL, A.B., M.D., *Assistant Professor of Surgery in Charge of Neuro-surgery*

A.B., Williams, 1926; M.D., Johns Hopkins, 1930; Int., Ass't. Res. and Res. in Surg., Johns Hopkins Hosp., 1930-1937; Ass't. and Instr. in Surg., Johns Hopkins Med. Sch., 1931-1937; *Assistant Surgeon, Duke Hospital, 1937—*

ANNE YATES, A.B., A.M., Ph.D., *Associate in Biochemistry*

A.B., Mount Holyoke, 1913; A.M. and Ph.D., Columbia, 1915 and 1920; Teach. Fellow in Chem., Barnard, 1913-1915; Instr. in Physiol., Mount Holyoke, 1915-1917; Teach. Fellow in Physiol., Minnesota Med. Sch., 1917-1918; Instr. in Physiol., Wellesley, 1919-1920; Assoc. in Biol., Bryn Mawr, 1920-1925; Ass't. Scientist, St. Elizabeth's Hosp., 1926-1933; *Assistant Biochemist, Duke Hospital, 1933—*

RAYMOND DELACY ADAMS, B.A., M.A., M.D., *Assistant in Medicine*

B.A., M.A., Oregon, 1932 and 1933; M.D., Duke, 1936; Int. and *Assistant Resident in Medicine, Duke Hospital, 1936—*

LENOX DIAL BAKER, M.D., *Instructor in Orthopedics*

M.D., Duke, 1933; Int. in Orth. Surg. and in Gen'l. Surg.; Ass't. Res. in Orth. Surg. and Res. in Orth., Johns Hopkins Hosp., 1933-1936; *Assistant Orthopedist, Duke Hospital, 1937—*

CELESTINE BEAMER, B.S., *Assistant in Physiology and Pharmacology*

B.S., Duke, 1934.

WILLIAM HENRY BRIDGERS, B.S., M.D., *Assistant in Pathology*

B.S. and M.D., Duke, 1936; Int. and *Assistant Resident in Surgery (Experimental Surgery and Pathology), Duke Hospital, 1936—*

ELIZA CALDWELL, A.B., M.D., *Assistant in Medicine*

A.B., Centre, 1932; M.D., Vanderbilt, 1936; Int. in Ped., Duke Hosp., 1936-1937; Int. and *Assistant Resident in Medicine, Duke Hospital, 1937—*

JASPER LAMAR CALLAWAY, B.S., M.D., *Instructor in Medicine, Dermatology and Syphilology*

M.D., Duke, 1932; B.S., Alabama, 1935; Ass't. Instr. in Derm. and Syphil., Univ. of Pennsylvania Med. Sch., 1932-1933; Int. and Ass't. Res. in Med., Duke Hosp., 1933-1935; Instr. in Phys. Diag. and Path., Univ. of Alabama, Jan.-July, 1935; Instr. in Derm. and Syphil., Univ. of Pennsylvania School of Medicine, 1935-1937; Ass't. Field Physician, U. S. P. H. S., Feb.-July, 1937; *Assistant Physician, Duke Hospital, 1937—*

WALTER EUGENE DANIEL, B.A., M.D., *Instructor in Urology*

B.A., Wake Forest, 1927; M.D., Med. Coll. of Virginia, 1931; Int. in Private Diagnostic Clinic and in Path., Duke Hosp., 1932-1934; Fellow in Urol., Pennsylvania Hosp., 1934-1935; Ass't. Res. and *Resident in Urology, Duke Hospital, 1936—*



JOHN WILLIAM DEVINE, JR., B.S., M.D., *Assistant in Surgery*

B.S. and M.D., Duke, 1934 and 1935; Int. in Surg., Junior Ass't. and Int. in Path and Assistant Resident in Surgery, Duke Hospital, 1935—

LESLIE VAN DYKE DILL, B.S., M.D., *Assistant in Pathology*

B.S. and M.D., Duke, 1936; Int. in Med., Vanderbilt University Hospital, 1936-1937  
*Interne in Pathology, Duke Hospital, 1937—*

JESSE HARRISON EPPERSON, B.S., *Instructor in Preventive Medicine and Public Health*

B.S., Oklahoma, 1914; Health Officer, Durham City and County, 1922—

CYRUS CONRAD ERICKSON, B.S., B.M., M.D., *Instructor in Pathology*

B.S., B.M. and M.D., Minnesota, 1932 and 1933; Int. in Surg., Minneapolis Gen'l. Hosp., May-Dec., 1932; Int., rotat., Detroit Receiving Hosp., Jan.-Aug., 1933; Fellow in Med., Minneapolis Gen'l. Hosp., Sept., 1933-Jan., 1934; Clin. Res. Fellow in Ped., Minnesota, Jan., 1934-July, 1935; Ass't. Res., Strong Mem. Hosp., and Ass't. in Path., Rochester Med. Sch., 1935-1937; Assistant Pathologist, Duke Hospital, 1937—

WILLIAM DEMPSEY FARMER, A.B., M.D., *Assistant in Otolaryngology*

A.B. and M.D., Duke, 1930 and 1934; Int. in Med., Baltimore City Hospitals, 1934-1935; Int. in Surg. and Int. and Assistant Resident in Otolaryngology, Duke Hospital, 1935—

GEORGE BURTON FERGUSON, M.S., M.D., *Instructor in Bronchoscopy*

M.D., Jefferson, 1932; M.S., Pennsylvania, 1936; Resident Physician, Jefferson Med. Coll. Hosp., 1932-1934.

RICHARD VAN FLETCHER, B.S., M.D., *Instructor in Surgery*

B.S., Georgia, 1929; M.D., Johns Hopkins, 1933; Int. and Assistant Resident in Surgery, Duke Hospital, 1933-1935; on leave of absence, 1935-1936, Trudeau Sanatorium, Saranac Lake, N. Y.; Ass't. Res. and Resident in Surgery, Duke Hospital, 1934—

CLARENCE KENDALL FRASER, Ph.B., M.D., *Assistant in Obstetrics and Gynecology*

Ph.B., Holy Cross, 1931; M.D., Tufts, 1935; Int., rotat., Gallinger Municipal Hosp., Washington, D. C., 1935-1936; Int. and Assistant Resident in Obstetrics and Gynecology, Duke Hospital, 1936—

GEORGE THOMAS HARRELL, JR., B.A., M.D., *Assistant in Pathology*

B.A. and M.D., Duke, 1932 and 1936; Int. in Med. and in Pathology, Duke Hospital, 1936—

JEROME SYLVAN HARRIS, A.B., M.D., *Instructor in Pediatrics and Biochemistry*

A.B., Dartmouth, 1929; M.D., Harvard, 1933; Med. House Officer, House of Good Samaritan, Boston, Oct., 1933-Jan., 1934; Int. in Med., Univ. of Chicago Clinics, 1934-1935; House Officer, Infants and Children's Hosp., Boston, 1935-1936; Assistant Pediatrician, Duke Hospital, 1937—

EDWARD KEENER HARRISON, A.B., M.D., *Instructor in Roentgenology*

A.B., Columbia, 1927; M.D., Physicians & Surgeons, 1932; Research Ass't., Dep't. of Health, Columbia Univ., 1932-1934; Int., Irvington Gen'l. Hosp., Irvington, N. J., 1934-1935; Ass't. Res. and Res. in Roentgenology, Univ. of Maryland Hosp., 1935-1936; Ass't. Res. and Resident in Roentgenology, Duke Hospital, 1936—

EDWARD CHARLES HOLSCHER, A.B., B.S., M.D., *Instructor in Orthopedics*

A.B. and B.S., Missouri, 1933; M.D., Harvard, 1935; Int., rotating, St. Louis City Hospitals, 1935-1936; Res. in Orth., Univ. of Missouri Hosp., Columbia, Mo., July-Nov., 1936; Resident in Orthopedics, Duke Hospital, 1936—

JULIAN ERICH JACOBS, M.D., *Instructor in Orthopedics*

M.D., Nebraska, 1935; Int., rotating, Univ. Hosp., Omaha, Nebraska, 1935-1936; Resident in Orthopedics, Duke Hospital, 1936—

JULIA MARY JONES, B.A., M.D., *Assistant in Medicine*

B.A., Ohio State, 1930; M.D., Duke, 1935; Int. in Med., Johns Hopkins Hosp., 3/1-6/30/35; Int., N. Y. State Hosp., Ray Brook, N. Y., 9/15-12/15/35; Ass't. in Anat., Duke Med. Sch., 1/1-6/30/36; and *Assistant Resident in Medicine, Duke Hospital, 1936*—

JOHN WALTER JONES, A.B., B.S., M.A., M.D., *Assistant in Obstetrics and Gynecology*

A.B., B.S., M.A. and M.D., Missouri, 1928, 1931 and 1933; Int. in Surg., Res. in Gyn. and Co-Res. in Obs., Henry Ford Hosp., 1933-1937; *Assistant Resident in Obstetrics and Gynecology, Duke Hospital, 1937*—

GEORGE WILLIAM JOYNER, B.S., M.D., *Instructor in Surgery*

B.S., Wake Forest, 1930; M.D., Duke, 1932; Int., Ass't. Res. and *Resident in Surgery, Duke Hospital, 1932*—

JAMES RAYMOND KLEIN, A.B., *Assistant in Biochemistry*

A.B., Duke, 1934.

HENRY IRVING KOHN, A.B., Ph.D., *Instructor in Physiology and Pharmacology*

A.B., Dartmouth, 1930; Ph.D., Harvard, 1935; Fellow of the Gen'l Educ. Bd., Stockholm and Cambridge, 1935-1937.

ALBERT A. KONDRITZER, A.B., M.S., *Research Fellow in Biochemistry*

A.B. and M.S., Cincinnati, 1931 and 1932; Fellow in Biochemistry, Cincinnati, 1931-1934.

EDWARD DAVID LEVY, A.B., *Assistant in Biochemistry*

A.B., Harvard, 1935.

ROSS CLAYTON MacCARDLE, B.S., Ph.D., *Instructor in Anatomy*

B.S., Michigan, 1927; Ph.D., Brown, 1932; Instr. in Cytology, Temple Univ., 1932-1935, and in Anat., Coll. of Physicians & Surgeons, Columbia Univ., 1935-1937.

ISAAC HALL MANNING, A.B., M.D., *Assistant in Pathology*

A.B., North Carolina, 1931; M.D., Harvard, 1935; Int. in Med., Boston City Hosp., 1936-1937; *Assistant Resident in Medicine (on leave), Duke Hospital, 1937*—

ELIJAH EUGENE MENEFEE, JR., B.S., M.D., *James A. Greene Research Fellow in Medicine and Bacteriology*

B.S. and M.D., Duke, 1936; Int. in Med., Duke Hosp., 1936-1937.

HARRY OSCAR MICHEL, B.S., *Assistant in Clinical Biochemistry*

B.S., Calif., 1933; Research in Biochemistry, Univ. of Calif., 1933-1934.

JASPER EUGENE MORGAN, B.S., A.M., Ph.D., *Instructor in Roentgenology and Physiology*

B.S., Wake Forest, 1931; A.M. and Ph.D., Duke, 1932 and 1936; Research Ass't. and Research Assoc. in Physics, Duke Univ., 1931-1936; *Consulting Physicist, Duke Hospital, 1936*—

HENRY STOKES MUNROE, JR., B.S., M.D., *Assistant in Surgery*

B.S., Davidson, 1931; M.D., Duke, 1935; Int. in Med., and Int. and *Assistant Resident in Surgery, Duke Hospital, 1935*—

PHILIP BROWER PARSONS, B.S., M.D., *Assistant in Pathology*

B.S. and M.D., Duke, 1935 and 1936; Int. in Surg., and in *Pathology, Duke Hospital, 1936*—

RICHARD LEHMER PEARSE, A.B., M.D., *Instructor in Obstetrics and Gynecology*

A.B., Duke, 1927; M.D., Harvard, 1931; House Officer, Free Hosp. for Women, 9 mos., 1931; Mass. Gen'l. Hosp., 1932-1934; Providence Lying in Hosp., 6 mos., 1935; Ass't. Res. and *Resident in Obstetrics and Gynecology, Duke Hospital, 1935*—

MARY ALVERTA POSTON, *Instructor in Bacteriology*

Ass't. in Biol. Lab., Johns Hopkins Hosp., 1922-1930; *Assistant Bacteriologist, Duke Hospital, 1930*—

RICHARD ZIMRI QUERY, JR., B.S., M.D., *Instructor in Medicine*

B.S., Davidson, 1929; M.D., Duke, 1934; Int., rotat., Henry Ford Hosp., 1934-1935; Ass't. Res. in Med. and Bact., and *Resident in Medicine, Duke Hospital, 1935—*

RICHARD BEVERLY RANEY, A.B., M.D., *Instructor in Orthopedics*

A.B., North Carolina, 1926; M.D., Harvard, 1930; Int. in Surg., 1930-1931; Surg. Pathologist, 1931-1932, and Ass't. Res. and Assoc. Res. Surgeon, Strong Memorial Hosp., 1932-1934; Res. in Orth. and *Assistant Orthopedist, Duke Hospital, 1934—*

LESTER PAUL RASMUSSEN, B.A., M.D., *Instructor in Pediatrics*

B.A., Utah, 1932; M.D., Duke, 1935; Int., rotat., Salt Lake General Hosp., 1935-1936, and in Ped. Univ. of Chicago Clinics, 1936-1937; Ass't. Res. and *Resident in Pediatrics, Duke Hospital, 1937—*

RAYMOND REISER, A.B., Ph.D., *Fellow in Medicine*

A.B., Western Reserve, 1929; Ph.D., Ohio State, 1936.

ERNEST GEORGE REUTER, A.B., M.D., *Assistant in Roentgenology*

A.B., Reed, 1926; M.D., Oregon, 1933; Int., Gen'l., Columbus Hosp., 1933-1934, and Physician for Alaskan plant of P. E. Harris & Co., Seattle, Wash., summer seasons of 1934, 1935 and 1936; Surgeon, States S. S. Co. of Portland, winter seasons, 1934-1935, and 1935-1936; *Assistant Resident in Roentgenology, Duke Hospital, 1937—*

LOUIS CARROLL ROBERTS, A.B., M.D., *Assistant in Surgery*

A.B., Davidson, 1930; M.D., Duke, 1933; Int. in Surg., Ass't. Res. in Path. and *Assistant Resident in Surgery, Duke Hospital, 1933—*

IRA STANLEY ROSS, A.B., *Assistant in Anatomy*

A.B., Duke, 1934.

EDWIN MACRAE RUCKER, A.B., M.D., *Assistant in Obstetrics and Gynecology*

A.B., Randolph-Macon, 1927; M.D., Duke, 1934; Int. in Med., and Int. and *Assistant Resident in Obstetrics and Gynecology, Duke Hospital, 1934—*

HERMAN MAX SCHIEBEL, A.B., M.D., *Assistant in Surgery*

A.B. and M.D., Johns Hopkins, 1929 and 1933; Int. and *Assistant Resident in Surgery, Duke Hospital, 1933—*

CLOTILDE SCHLAYER, Ph.D., *Research Assistant in Medicine*

Ph.D., Heidelberg, 1927; Voluntary Ass't. in Research in Cellular Physiol., University Hosp. of Berlin, 1933-1935.

WILLIAM SCHULZE, B.S., M.D., *Assistant in Medicine*

B.S., Richmond, 1932; M.D., Duke, 1936; Int. and *Assistant Resident in Medicine, Duke Hospital, 1936—*

WILL CAMP SEALY, B.S., M.D., *Assistant in Pathology*

B.S. and M.D., Emory, 1933 and 1936; Int. and *Assistant Resident in Surgery (Experimental Surgery and Pathology), Duke Hospital, 1936—*

GIFFORD DE ALTON SEITZ, B.A., M.D., *Assistant in Obstetrics and Gynecology*

B.A. and M.D., Oregon, 1928 and 1932; Int. in Path., Baltimore City Hosps. and Johns Hopkins Hosp., 1932-1933, and in Urol., Johns Hopkins Hosp., 1933-1934; Int. and *Assistant Resident in Obstetrics and Gynecology, Duke Hospital, 1934—*

MARY ELIZABETH SHIPP, A.B., M.A., *Research Assistant in Anatomy*

A.B. and M.A., Duke, 1929 and 1932.

GLENN EMORY STAYER, A.B., M.D., *Instructor in Otolaryngology and Ophthalmology*

A.B., Columbia, 1931; M.D., Duke, 1934; Int., rotat., Touro Infirm., 1934-1935; Int., Ass't. Res. and *Resident in Otolaryngology and Ophthalmology, Duke Hospital, 1935—*

SAMUEL EARLE UPCHURCH, B.A., M.D., *Assistant in Surgery*

B.A. and M.D., Vanderbilt, 1929 and 1933; Int. in Surg., Int. and Ass't. Res. in Med., and *Assistant Resident in Surgery, Duke Hospital, 1933—*

WALTER WEDDLE VAUGHAN, A.B., M.D., *Instructor in Roentgenology*

A.B., North Carolina; M.D., Jefferson, 1933; Int., rotating, Geisinger Memorial Hosp., Danville, Va., 1933-1934; Ass't. Res. and Res. in Radiology, Peter Bent Brigham Hosp., Boston, 1934-1936; *Assistant Roentgenologist, Duke Hospital, 1936—*

WARNER LEE WELLS, A.B., *Assistant in Anatomy*

A.B., Duke, 1934.

E. LLOYD WILBUR, M.D., *Assistant in Pathology*

M.D., Nebraska, 1934; Int., rotating, Jennie Edmondson Hosp., Council Bluffs, Iowa, 1934-1935; Int. and *Assistant Resident in Pathology, Duke Hospital, 1935—*

ROBERT WILLIAMS, A.B., M.D., *Assistant in Medicine*

A.B., Duke, 1931; M.D., Pennsylvania, 1935; Int., rotat., St. Joseph's Hosp., Baltimore, 1935-1936; Int. and *Assistant Resident in Medicine, Duke Hospital, 1936—*

NANCY BOWMAN WISE, A.B., M.D., *Assistant in Medicine*

A.B., Mt. Holyoke, 1932; M.D., Yale, 1937; Int. and *Assistant Resident in Medicine, Duke Hospital, 1937—*

KARL ARDEN YOUNGSTROM, A.B., M.A., Ph.D., *Instructor in Anatomy*

A.B., M.A., and Ph.D., Kansas, 1932 and 1937; Instr. in Bact., 1930-1931, and in Anat., Kansas Univ., 1931-1937.

## STAFF OF DUKE HOSPITAL

### Administrative Committee

F. V. ALTVATER  
BESSIE BAKER  
BAYARD CARTER

W. C. DAVISON  
DERYL HART  
F. M. HANES

ELSIE W. MARTIN  
F. R. PORTER  
D. T. SMITH

### Administrative and Technical Staff

FREDERICK VERNON ALTVATER, A.B., A.M., *Superintendent*.  
F. ROSS PORTER, A.B., *Assistant Superintendent*.  
HAROLD CHANDLER MICKEY, B.B.A., *Assistant Superintendent*.  
BESSIE BAKER, R.N., B.S., *Dean of School of Nursing*.  
ELSIE WILSON MARTIN, A.B., M.S., *Professor of Dietetics*.  
JASPER EUGENE MORGAN, B.S., M.S., Ph.D., *Physicist*.  
I. THOMAS REAMER, Ph.G., *Pharmacist*.  
REBA NEW HOBGOOD, *Public Dispensary*.  
JUDITH FARRAR, A.B., B.S., *Librarian*.  
MARY HOEN MULLER, R.N., *Anesthetist*.  
PERRY GIBSON, A.B., B.S.M., *Social Service*.  
JESSIE HARNED, *Record Librarian*.  
ELON HENRY CLARK, *Artist*.  
HENRY FLOYD PICKETT, A.B., *Photographer*.  
CHRISTIAN ADOLPH LETZING, *Braces and Instruments*.

### Hospital and Public Dispensary Teaching Staff

#### Chiefs of Services

EDWIN PASCAL ALYEA, S.B., M.D., *Urology*.  
WILLIAM BANKS ANDERSON, A.B., M.D., *Ophthalmology*.  
BAYARD CARTER, A.B., B.A., M.A., M.D., *Obstetrics and Gynecology*.  
RAYMOND S. CRISPELL, A.B., M.D., *Neuropsychiatry*.  
WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D., *Pediatrics*.  
WATT WEEMS EAGLE, A.B., M.D., *Otolaryngology*.  
WILEY DAVIS FORBUS, A.B., M.D., *Pathology*.  
FREDERIC MOIR HANES, A.B., A.M., M.D., *Medicine*.  
DERYL HART, A.B., M.A., M.D., *Surgery*.  
THEODORE W. ATWOOD, A.B., D.M.D., *Dentistry*.  
WILLIAM ALEXANDRE PERLZWEIG, B.S., A.M., Ph.D., *Biochemistry*.  
ROBERT JAMES REEVES, A.B., M.D., *Roentgenology*.  
\*ALFRED RIVES SHANDS, JR., B.A., M.D., *Orthopedics*.  
DAVID TILLERSON SMITH, A.B., M.D., *Bacteriology*.

#### Associate Staff

JASPER LAMAR CALLAWAY, B.S., M.D., *Dermatology and Syphilology*.  
NORMAN FRANCIS CONANT, B.S., A.M., Ph.D., *Mycology*.  
ERLE BULLA CRAVEN, JR., A.B., M.D., *Medicine*.  
MACDONALD DICK, A.B., M.A., M.D., *Medicine*.  
SNOWDEN COWMAN HALL, A.B., M.D., *Medicine*.  
OSCAR CARL EDVARD HANSEN-PRÜSS, A.B., M.D., *Medicine*.  
CHRISTOPHER JOHNSTON, A.B., M.D., *Medicine*.  
THOMAS T. JONES, A.B., M.D., *Medicine*.  
WALTER KEMPNER, M.D., *Medicine*.  
DONALD STOVER MARTIN, A.B., M.D., *Medicine and Bacteriology*.

\* On leave 1937-38.



ROBERT LINDSAY McMILLAN, B.S., M.D., *Medicine*.  
 WILLIAM McNEAL NICHOLSON, A.B., M.D., *Medicine*.  
 EDWARD STEWART ORGAIN, M.D., *Medicine*.  
 ELBERT LAPSLEY PERSONS, A.B., M.D., *Medicine and Dermatology*.  
 JULIAN MEADE RUFFIN, A.B., M.A., M.D., *Medicine*.  
 DAVID TILLERSON SMITH, A.B., M.D., *Medicine*.  
 O. NORRIS SMITH, B.A., M.D., *Medicine*.  
 ROBERT WILLIAMS GRAVES, B.S., M.A., M.D., *Neurology*.  
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 HAROLD FINKELSTEIN, B.S., M.D., *Surgery*.  
 CLARENCE ELLSWORTH GARDNER, JR., A.B., M.D., *Surgery*.  
 ROBERT RANDOLPH JONES, JR., A.B., M.D., *Surgery*.  
 BARNES WOODHALL, A.B., M.D., *Neuro-surgery*.  
 LENOX DIAL BAKER, M.D., *Orthopedics*.  
 ROBERT BEVERLY RANEY, A.B., M.D., *Orthopedics*.  
 GEORGE BURTON FERGUSON, M.S., M.D., *Bronchoscopy*.  
 EDWIN CROWELL HAMBLEN, B.S., M.D., *Obstetrics and Gynecology*.  
 ROBERT ALEXANDER ROSS, B.S., M.D., *Obstetrics and Gynecology*.  
 ANNIE THOMPSON SMITH, A.B., A.M., M.D., *Obstetrics and Gynecology*.  
 WALTER LEE THOMAS, JR., A.B., M.A., M.D., *Obstetrics and Gynecology*.  
 JAY MORRIS ARENA, B.S., M.D., *Pediatrics*.  
 ANGUS MCBRYDE, B.S., M.D., *Pediatrics*.  
 ARTHUR HILL LONDON, JR., A.B., M.D., *Pediatrics*.  
 JEROME SYLVAN HARRIS, A.B., M.D., *Pediatrics*.  
 WALTER WEDDLE VAUGHAN, A.B., M.D., *Roentgenology*.  
 ROGER DENIO BAKER, A.B., M.D., *Pathology*.  
 CYRUS CONRAD ERICKSON, B.S., B.M., M.D., *Pathology*.  
 DOUGLAS HAMILTON SPRUNT, B.S., M.S., M.D., *Pathology*.  
 HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D., *Toxicology*.  
 ANNE YATES, A.B., A.M., Ph.D., *Biochemistry*.

### Resident Staff

#### Residents

RICHARD ZIMRI QUERY, JR., B.S., Davidson, 1929; M.D., 1934; *Medicine*.  
 RICHARD VAN FLETCHER, B.S., Georgia, 1929; M.D., Johns Hopkins, 1933; *Surgery*.  
 GEORGE W. JOYNER, B.S., Wake Forest, 1930; M.D., Duke, 1932; *Surgery*.  
 GLENN EMORY STAYER, A.B., Columbia, 1931; M.D., Duke, 1934; *Otolaryngology and Ophthalmology*.  
 EDWARD CHARLES HOLSCHER, A.B. and B.S., Missouri, 1933; M.D., Harvard, 1935; *Orthopedics*.  
 JULIAN ERICH JACOBS, M.D., Nebraska, 1935; *Orthopedics*.  
 WALTER EUGENE DANIEL, B.A., Wake Forest, 1927; M.D., Virginia, 1931; *Urology*.  
 RICHARD LEHMER PEARSE, A.B., Duke, 1927; M.D., Harvard, 1931; *Obstetrics and Gynecology*.  
 LESTER PAUL RASMUSSEN, B.A., Utah, 1932; M.D., Duke, 1935; *Pediatrics*.  
 EDWARD K. HARRISON, A.B., Columbia, 1928; M.D., Columbia (P. & S.), 1932; *Roentgenology*.

#### Assistant Residents

RAYMOND DELACY ADAMS, B.A. and M.A., Oregon, 1932 and 1933; M.D., Duke, 1936; *Medicine*.  
 ELIZA CALDWELL, A.B., Centre, 1932; M.D., Vanderbilt, 1936; *Medicine*.  
 JULIA MARY JONES, B.A., Ohio State, 1930; M.D., Duke, 1935; *Medicine*.  
 ISAAC HALL MANNING, A.B., North Carolina, 1931; M.D., Harvard, 1935; *Medicine (on leave)*.  
 WILLIAM SCHULZE, B.S., Richmond, 1932; M.D., Duke, 1936; *Medicine*.

- ROBERT WILLIAMS, A.B., Duke, 1931; M.D., Pennsylvania, 1935; *Medicine*.  
 NANCY BOWMAN WISE, A.B., Mt. Holyoke, 1932; M.D., Yale, 1937; *Medicine*.  
 WILLIAM HENRY BRIDGERS, B.S. and M.D., Duke, 1936; *Surgery (Experimental Surgery and Pathology)*.  
 JOHN WILLIAM DEVINE, JR., B.S. and M.D., Duke, 1934 and 1935; *Surgery*.  
 HENRY STOKES MUNROE, JR., B.S., Davidson, 1931; M.D., Duke, 1935; *Surgery*.  
 LOUIS CARROLL ROBERTS, A.B., Davidson, 1930; M.D., Duke, 1933; *Surgery*.  
 HERMAN MAX SCHIEBEL, A.B. and M.D., Johns Hopkins, 1929 and 1935; *Surgery*.  
 WILL CAMP SEALY, B.S. and M.D., Emory, 1933 and 1936; *Surgery (Experimental Surgery and Pathology)*.  
 SAMUEL EARLE UPCHURCH, B.A. and M.D., Vanderbilt, 1929 and 1933; *Surgery*.  
 WILLIAM DEMPSEY FARMER, A.B. and M.D., Duke, 1930 and 1934; *Otolaryngology*.  
 CLARENCE KENDALL FRASER, Ph.B., Holy Cross, 1931; M.D., Tufts, 1935; *Obstetrics and Gynecology*.  
 JOHN WALTER JONES, A.B., 1928, and B.S. and M.A., Missouri, 1931; M.D., Washington, 1933; *Obstetrics and Gynecology*.  
 EDWIN MACRAE RUCKER, A.B., Randolph-Macon, 1927; M.D., Duke, 1934; *Obstetrics and Gynecology*.  
 GIFFORD DE ALTON SEITZ, B.A. and M.D., Oregon, 1928 and 1932; *Obstetrics and Gynecology*.  
 ERNEST GEORGE REUTER, A.B., Reed, 1926; M.D., Oregon, 1933; *Roentgenology*.  
 E. LLOYD WILBUR (Acting Resident), M.D., Nebraska, 1934; *Pathology*.
- Internes**
- HAROLD IRA HARVEY, A.B., Harvard, 1924; M.D., Duke, 1937; *Medicine*.  
 WILLIAM HENRY KAUFMAN, B.A., Johns Hopkins, 1934; M.D., Duke, 1937; *Medicine*.  
 VINCE MOSELEY, A.B. and M.D., Duke, 1933 and 1936; *Medicine*.  
 RAY O. NOOJIN, A.B., Alabama, 1933; M.D., Chicago, 1937; *Medicine*.  
 CARLTON LEE OULD, A.B. and M.D., Duke, 1931 and 1937; *Medicine*.  
 RAYMOND WOODROW POSTLETHWAITE, B.S., West Virginia, 1935; M.D., Duke, 1937; *Medicine*.  
 JOSEPH BLACKBURN STEVENS, B.S., Davidson, 1932; M.D., Duke, 1935; *Medicine*.  
 JAMES DACOSTA BRAMER, B.A., Colgate, 1931; M.D., Rochester, 1935; *Surgery*.  
 EVERETT IRVING BUGG, JR., B.S., Duke, 1935; M.D., Johns Hopkins, 1937; *Surgery*.  
 CYRUS LEIGHTON GRAY, JR., B.S., High Point, 1933; M.D., Duke, 1937; *Surgery*.  
 DURWARD LEE LOVELL, M.D., Duke, 1936; *Surgery*.  
 WILLIAM METCALF, B.S. and M.S., Massachusetts Institute of Technology, 1931; M.D., Johns Hopkins, 1937; *Surgery*.  
 WILLIAM HENRY PETTUS, JR., B.S., Richmond, 1933; M.D., Cornell, 1937; *Surgery*.  
 EMMERT CHRISTOPHER STUART, JR., M.D., McGill, 1934; *Surgery*.  
 RALPH A. ARNOLD, B.A., Rochester, 1932; M.D., Buffalo, 1936; *Otolaryngology*.  
 KERMIT WENDELL COVELL, B.S. and M.D., Indiana, 1933 and 1935; *Otolaryngology*.  
 MILO FRITZ, A.B. and M.D., Columbia, 1931 and 1934; *Otolaryngology*.  
 DANA MORRIS STREET, B.S., Haverford, 1932; M.D., Cornell, 1936; *Orthopedics*.  
 SIDNEY FEYDER, A.B., M.S. and M.D., Rochester, 1932, 1934 and 1936; *Urology*.  
 TROGLER FRANCIS ADKINS, M.D., Duke, 1936; *Obstetrics and Gynecology*.  
 ELEANOR BEAMER EASLEY, B.A., Idaho, 1928; M.A., Iowa, 1929; M.D., Duke, 1934; *Obstetrics and Gynecology*.  
 MARGARET VIRGINIA BURNS, M.D., Duke, 1937; *Pediatrics*.  
 WILLIAM HOEHNE GAULT, Ph.B., M.D., Yale, 1931 and 1936; *Pediatrics*.



- JEAN M. MARTIN, B.S., State Teachers, Harrisonburg, Va.; M.D., Virginia, 1936; *Pediatrics*.
- HENRY GEORGE MORTON, B.S. and M.D., Duke, 1936 and 1937; *Pediatrics*.
- CHARLES DICK ROLLINS, B.S., North Carolina, 1933; M.D., Pennsylvania, 1935; *Pediatrics*.
- BURTON MICHAEL SHINNERS, B.S., Notre Dame, 1933; M.D., Duke, 1936; *Pediatrics*.
- GEORGE ADDISON SILVER, M.D., Duke, 1937; *Pediatrics*.
- LESLIE VAN DYKE DILL, B.S. and M.D., Duke, 1936; *Pathology*.
- GEORGE THOMAS HARRELL, JR., B.A. and M.D., Duke, 1932 and 1936; *Pathology*.
- PHILIP BROWER PARSONS, B.S. and M.D., Duke, 1935 and 1936; *Pathology*.
- JACOB HIMI KRESS, B.S., High Point, 1928; M.D., Med. Coll. of Virginia, 1936; *Student Health Service*.
- PELAGIUS M. WILLIAMS, M.D., Oregon, 1937; *Private Diagnostic Clinic*.
- WILLIAM ALPHONSO WITHERS, A.B., North Carolina, 1932; M.D., Rush, 1936; *Private Diagnostic Clinic*.
- NORMAN F. ROSS, D.D.S., Temple, 1937; *Dentistry*.
- JAMES M. DANIEL, A.B., Duke, 1936; *Administration*.
- HORACE EMERSON HAMILTON, B.S., North Carolina, 1937; *Administration*.
- DEWITT WRIGHT, B.S. and J.D., Northwestern, 1923 and 1926; *Administration*.

# COMMITTEES OF THE SCHOOL OF MEDICINE

## ADMINISTRATIVE COUNCIL OF THE SCHOOL OF MEDICINE

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R. L. FLOWERS, *Secretary and Treasurer*  
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BAYARD CARTER	F. M. HANES	F. H. SWETT
W. C. DAVISON	DERYL HART	

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## COMMITTEE ON INTERNESHIIPS

E. C. HAMBLIN ( <i>Chairman</i> )	D. H. SPRUNT	W. C. DAVISON
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## BEAUMONT COMMITTEE

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## COMMITTEE ON STUDENT TECHNICIANS

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## REGIONAL REPRESENTATIVES OF THE COMMITTEE ON ADMISSION

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St. Louis, Missouri.....	HUGH MCCULLOCH
Butte, Montana.....	CAROLINE MCGILL
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New York, New York.....	LAWRENCE S. KUBIE
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Columbia, South Carolina.....	JAMES H. GIBBES
Memphis, Tennessee.....	RAPHAEL E. SEMMES
Nashville, Tennessee.....	SAM L. CLARK
Fort Worth, Texas.....	KHLEBER H. BEALL
San Antonio, Texas.....	P. I. NIXON
Salt Lake City, Utah.....	ALFRED J. RIDGES
St. Johnsbury, Vermont.....	WM. G. RICKER
Charlottesville, Virginia.....	HENRY B. MULHOLLAND
Roanoke, Virginia.....	HUGH H. TROUT
Seattle, Washington.....	R. D. FORBES
Spokane, Washington.....	A. A. MATTHEWS
Huntington, West Virginia.....	GEORGE M. LYON

## GENERAL STATEMENT

Duke University School of Medicine and Duke Hospital were established in 1925, through the munificent gift of the late James B. Duke. The *School of Medicine* has been planned to insure the greatest correlation between the various departments. These facilities are available also for students who are studying for degrees other than that of Doctor of Medicine. The School of Medicine has been approved as Class A by the American Medical Association and also is a member of the Association of the American Medical Colleges. On September 30, 1937, two hundred and forty-five students were enrolled.

## FACILITIES OF THE HOSPITAL

Duke Hospital has every modern convenience for the diagnosis, proper care, welfare and comfort of the patients, both private and charity, white and colored, whether they come from Durham or from a distance. It has 456 beds, including 50 bassinets for newly born infants. *Medicine*, including dermatology, neurology and psychiatry, has 111 ward beds; *surgery*, including urology, otolaryngology, ophthalmology and orthopedics, 105 ward beds; *obstetrics*, including *gynecology*, 56, and 50 bassinets; and *pediatrics*, 52. There are 82 private rooms and semi-private cubicles, 7 operating rooms, 4 obstetrics delivery rooms, and accommodations for a resident staff of 71. Offices and examining rooms for the members of the Medical Faculty are located in the Hospital. The Hospital has been approved for internship and residencies by the Council on Medical Education and Hospitals of the American Medical Association.

Duke Hospital and its Public Dispensary were opened for patients on July 21, 1930. Ninety-five thousand and five hundred individuals have been examined, diagnosed, and treated up to January 1, 1938. Seventeen per cent of the patients come from within a radius of twenty miles, the remaining 83 per cent come from over 98 of the 100 counties in North Carolina and from 20 other states. The average distance traveled by the patient is more than 70 miles.

**PUBLIC WARD PATIENTS.** Duke Hospital cannot give charity treatment to all who apply; therefore patients whose incomes are less than \$15 per week should apply for examinations or for admission to the public wards, through their family physicians, to the Duke Public Dispensary (telephone Durham F-131) on the days and hours listed below. The hospital fees consist of three classes of flat daily rates (private, semi-private, and public ward), which cover all hospital costs, including those usually charged as extras, thereby making it possible to estimate, in advance, the probable cost of hospitalization and to adjust the bill to the patient's resources. This policy of basing the rate upon the amount the patient can pay, rather than on the actual cost, like a hotel, has enabled many, who, under the former system, unnecessarily were objects of charity, to maintain their self-respect by contributing a fixed sum within their

means. The actual cost to the Hospital for public care is over \$4.00 daily; but in order to meet the greatly increased demand for charity work, Duke Hospital adopted the co-operative plan of paying half the cost, provided the patient's local welfare department co-operated by paying the other half, or \$2.00 daily, in advance. This is in accordance with Mr. Duke's plan that the communities share, with the Duke Endowment, the burden of charity patients, instead of either carrying all of it. Although 88.8 per cent of the patients pay less than cost, the revenue from patients, their friends, the counties and the Duke Endowment provides approximately half of their expenses. By having every patient contribute in accordance with his means, the balance, which Duke Hospital gives in charity or less than cost service, has been spread over a larger number of people. Instead of giving complete and pauperizing charity care to 4,000 patients, the hospital has been able to assist approximately 10,000 individuals annually to obtain medical care for which they could not pay the full cost.

**PRIVATE PATIENTS.** Patients who can pay the ward and private rates of \$3.50 to \$9.00 per day, exclusive of professional services, may at any time, through their family physicians, in consultation with any member of the Hospital Staff, make reservations by telephoning to the Admitting Office (Durham F-131). Appointments for private examinations and treatment may be made in advance by telephoning to members of the Hospital Staff or to the Private Diagnostic Clinic (Durham F-131).

Every effort is being made to co-operate with the medical profession, and patients are asked to return to the physicians who referred them to the Hospital and Public Dispensary.

**SCHEDULE OF PUBLIC DISPENSARY CLINICS.** No clinics are held on Saturdays, Sundays, or holidays. Patients must register at the times listed.

Registration hours: White patients, 12:15 P.M., and colored patients at 1:00 P.M., unless otherwise noted below.

General Medicine	} <i>Monday, Tuesday, Wednesday, Thursday and Friday.</i>
General Surgery	
Obstetrics and Gynecology	
(Women's Diseases)	
Children's Diseases	
Ear, Nose and Throat	
Dentistry	
Tumors	

Bone and Joint Diseases: *Monday, Wednesday and Friday.*

Urinary and Kidney Diseases: *Tuesday and Friday.*

Eye: *Tuesday, Thursday and Friday.*

Syphilis: *Thursday at 6:00 P.M.*

Asthma and Hay Fever: *Tuesday at 9:00 A.M. and Friday at 1:00 P.M.*

Diabetes	} <i>Tuesday at 9:00 A.M.</i>
Infant Feeding	
(Patients seen by previous appointment only)	

Pneumothorax (chest and tubercular): *Friday at 9:00 A.M.*

(Patients seen by previous appointment only)

Endocrine (sterility, menstrual disorders, etc.): *Wednesday 8:30-12:00 A.M.*

(Patients seen by previous appointment only)

If the patient is able to pay, the Public Dispensary charge is from twenty-five cents to \$5.00 for the first visit to any department, plus the actual cost of X-rays and other materials used. For the return visits, to the regular clinics, the rate is from twenty-five cents to seventy-five cents for consultation or completion of examination; and seventy-five cents for patients who have not been instructed to return, but do so on their own initiative. In order to co-operate with the medical profession, anyone who wishes to attend the Public Dispensary should consult, and bring a letter from his or her own physician. All patients accompanied by their physicians are admitted free to the Public Dispensary.

The general policy of admitting patients to the Wards and Public Dispensary is to consider carefully their financial and social status; income and size of family, special responsibilities and the probable cost of treatment, all being weighed in determining admission. A married patient, for instance, with an income of less than \$15 per week is considered admissible to the Public Wards or Public Dispensary for ordinary conditions; the income limit, of course, varying according to the other factors which affect the patient's financial status. Those who are able to pay the ordinary fees of consultants and specialists are not admitted to the Public Dispensary, but may make arrangements through their own physicians for examinations by any member of the Hospital Staff or in the Private Diagnostic Clinic.

### PRIVATE DIAGNOSTIC CLINIC

The Private Diagnostic Clinic was organized to co-ordinate the diagnostic studies, and to give better care for the complicated problems arising in the examination of private patients. The Clinical Staff of Duke Hospital and School of Medicine forms the professional staff of this Clinic, while the financial side is handled by a business manager. The offices and examining rooms are in Duke Hospital, and all the laboratory and diagnostic facilities of the Hospital and School of Medicine are utilized by the Clinic. A complete diagnostic survey usually requires from one to four days, and the charges generally range from \$15 to \$50, the amount depending on the work required and on the financial condition of the patient.

### SCHOOL OF NURSING

BESSIE BAKER, R.N., B.S., *Dean of the School of Nursing*

The next class of students will be admitted to the Duke University School of Nursing on October 3, 1938, but applications should be sent as soon as possible; they will be considered in the order received. The entrance requirements are intelligence, character, and graduation from an acceptable high school. The course leading to the Diploma of Graduate Nurse consists of three years of eleven months each. The tuition is \$100



per year. Application forms and bulletins may be obtained by writing to the Dean, Duke University School of Nursing, Durham, N. C.

Duke University grants the degree of Bachelor of Science in Nursing to women who have completed successfully two years of college work (60 semester-hours) in Duke University or another approved university or college, in addition to the three-year course leading to the Diploma of Graduate Nurse in Duke University School of Nursing, provided they have had certain specified college courses. The sixty semester-hours of college work can be completed either before or after the three-year course in the School of Nursing but not during it. Those who contemplate studying for this degree should obtain advice from the Dean of the School of Nursing about the University or College courses which are recommended.

### SCHOOL OF DIETETICS

ELSIE W. MARTIN, A.B., M.S., *Professor of Dietetics*

In addition to the training of medical students and nurses in dietetics, six student dietitians may be admitted to the School of Dietetics and given the certificate of graduate dietitian after the successful completion of one year. The entrance requirements are a Bachelor's degree from an approved university or college, with majors in nutrition and institutional management, and the courses in chemistry, biology, social science and education recommended by the American Dietetic Association. The course for student dietitians provides instruction in all phases of hospital and institutional dietetics, including experience from the buying and storage of food to its service to the patient according to the doctor's orders. In addition, the student dietitians are required to complete the courses in biochemistry, nutrition and selected portions of physiology as given to the medical students.

More detailed information and application blanks may be obtained from the Professor of Dietetics, Duke University School of Dietetics, Durham, N. C. The course starts the first Monday in September, but applications for appointments should be made before February 1. No tuition is charged, but a registration fee of \$10.00 is payable at the time of appointment; maintenance is provided.

### Hospital Administration

F. V. ALTVATER, *Superintendent.*

F. R. PORTER, *Assistant Superintendent.*

H. C. MICKEY, *Assistant Superintendent.*

C. H. COBB, *Business Manager Medical Division.*

E. S. RAPER, *Business Manager Surgical Division.*

Three or four internships in hospital administration are available to university graduates, whose character, tact, and ability for leadership are good, and whose academic standing is high. These internships are of three years' duration and pay a small salary in addition to room, board, and laundry. Vacations of one month are allowed at the beginning of the second and third years of internship.



The instruction is practical rather than theoretical in emphasis. The internes are rotated through five different assistant administrative positions in the Hospital. There is also a weekly seminar lasting two hours. Further information may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C.

### ANESTHESIA

MARY MULLER, R.N., *Instructor in Anesthesia.*

MARY S. SNIVELY, R.N., *Instructor in Anesthesia.*

ELIZA GOODMAN, R.N., *Assistant in Anesthesia.*

Duke Hospital offers to registered nurses from accredited schools of nursing a twelve months' course in anesthesia, which includes the theory and practice of anesthesia. The tuition fee of \$100 covers all expenses of the course, including maintenance. Applications may be sent to Miss Mary Muller, Duke Hospital, Durham, N. C.

### RECORD LIBRARY

JESSIE HARNED, R.R.L., *Medical Records Librarian*

Duke Hospital proposes to offer a course for the training of Medical Record Librarians. This course will include every detail of the theory and practice of clinical record librarian methods. A nominal tuition fee will be charged. Application may be made to the Medical Record Librarian, Duke Hospital, Durham, N. C., after July 1, 1938.

### POSTGRADUATE STUDY

The need for more provision for postgraduate study is very acute, not only in this country, but also abroad. There are very few clinics to which a physician can go, after he has been in practice several years, to obtain the additional training which he has found necessary. The School of Medicine is attempting to fill this need. If any doctor wishes to spend a few days, weeks, or months reviewing his knowledge of medicine, surgery, obstetrics, pediatrics, or other branches, or if he has to do an unusual operation and wishes to refresh his memory of the anatomy involved, the facilities and equipment are at his disposal. The School of Medicine is not limited to the training of its own students and staff but extends to the members of the medical profession the benefit of everything it has. Graduates in medicine are welcomed especially at the various clinics and demonstrations in medicine, surgery, obstetrics, and other specialties which are held from 9 A.M. to 12:30 P.M. each Saturday and at the clinical-pathological conferences at 5 P.M. on Wednesdays. A three-day postgraduate symposium on Subtropical Medical Problems also will be given on October 13 to 15, 1938. This symposium will be part of the Duke University Centennial, celebrating in 1938 the centenary of the origins of Trinity College from which Duke University developed. Further information may be obtained by writing to the head of the department concerned or to the Dean.

### INTERNESHIPS AND RESIDENCIES

Interneships of one year's duration with room, board, laundry, and uniforms furnished, but without salary, are available in *surgery* (including general surgery, urology, and orthopedics), in *orthopedics*, in *urology*, in *otolaryngology*, in *dentistry*, in *obstetrics* and *gynecology*, in *pediatrics*, or in *pathology*, commencing each July and September.

*Medical* interneships (including dermatology, neurology, and psychiatry) are of two years' duration, the interne rising by progressive stages of four months each to senior house officer. After one year's service the interne has the rank and emoluments of an assistant resident. Services begin in July, November, and March.

Application blanks for all interneships, which must be returned by December 1, may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C. Graduates of any Class A medical school are eligible for interneships.

After the completion of an interneship in Duke Hospital or in another acceptable hospital, a certain number may be appointed as assistant residents in medicine, surgery, obstetrics and gynecology, pediatrics, neuropsychiatry, orthopedics, urology, otolaryngology, roentgenology, pathology, biochemistry, or the Student Health Service, or as fellows of the Private Diagnostic Clinic, at a salary of \$250 to \$500 per year with maintenance, and eventually may be promoted to the residency in the various departments or sub-departments of the Hospital at an annual salary of \$500 to \$1,000 with maintenance. Applications should be made to the head of the department concerned.

The Hospital and School of Medicine are an integral part of the Duke University campus and its educational, recreational, and athletic facilities are available for the Resident Staff.

The present Resident Staff of seventy-six consists of a resident, an assistant resident, and twelve internes in *medicine*; a resident, eight assistant residents, and eight internes in *surgery* (the eight surgical assistant residents are assigned in rotation to *general surgery*, *pathology*, *orthopedics*, and *urology*); a resident, an assistant resident, and three internes in *otolaryngology* and *ophthalmology*; a resident, two assistant residents, and six internes in *obstetrics* and *gynecology*; two assistant residents and five internes in *pediatrics*; a resident and two assistant residents in *roentgenology*; a resident and an interne in *orthopedics*; a resident and an interne in *urology*; a resident in *neuropsychiatry*; a resident, two assistant residents, and four internes in *pathology*; an assistant resident in *biochemistry*; a resident and two fellows in the *Private Diagnostic Clinic*; one interne in *dentistry*; an assistant resident on the *Student Health Service*, and three internes in *Administration*.

### LIBRARY

*"To study the phenomena of disease without books is to sail an uncharted sea, while to study books without patients is not to go to sea at all."*—SIR WILLIAM OSLER.

In addition to the general library of Duke University and the departmental libraries of biology, chemistry, physics, etc., which have 453,991

volumes available for medical students, Duke Hospital Library contains 34,239 volumes of American and foreign medical literature and subscribes to 335 current American and foreign medical and other scientific journals. These books and journals are available daily from 8:20 A.M. to 11:00 P.M. for the students, nurses, staff, and medical profession.

### **MEDICAL CARE**

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated medical students of the University for the health fee of \$3.33 per quarter. This service is under the direction of the University Physician with the co-operation of the Staff of Duke Hospital. It includes hospitalization, medical and surgical care, drugs, dressings, X-ray studies, and ward nursing. A charge for board is made at the same rate as in the University dining halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes and treatment of teeth and of all chronic and pre-existing conditions, such as the removal of diseased tonsils, etc., are not included in this service. The cost of any necessary braces and orthopedic appliances as well as of special nursing must be borne by the student.

### **STUDENT GOVERNMENT**

The members of the student body elect an Honor Council in which each class is represented. It is the duty of the Honor Council to hear all cases involving breaches of conduct on the part of members of the student body. All new students entering this School are required to comply with this system of government.

### **THE DUKE UNIVERSITY MEDICAL SOCIETY**

This society was organized in 1937 to facilitate the presentation of current medical problems before the students, the staff, and other interested persons in the University and professional community. Meetings are held monthly during the academic year, and the programs usually consist of short case presentations and discussions followed by a description of some staff or student research project. Occasionally guest speakers from other institutions are invited to participate in the programs.

### **APPLICATION FOR ADMISSION**

Application forms may be obtained by writing to the Dean, Duke University School of Medicine, Durham, N. C. They must be filled in with typewriting, a 2 x 2½ inch recent photograph attached, and the application returned to the Committee on Admission as soon as possible. Applications are considered in the order received. If the information obtained is satisfactory, a personal interview with the Committee on Admission or a Regional Representative is arranged for the applicant. The candidate then is notified as soon as possible whether he has been accepted or declined; if accepted, the student must send a deposit of \$50

within two weeks to insure his enrollment. This money is applied toward his tuition. First-year students are admitted only at the beginning of the Autumn Quarter, but applications are considered, and a decision in regard to admission is made at any time during the preceding year. Women are received on the same terms as men.

### REQUIREMENTS FOR ADMISSION

*"I request that great care and discrimination be exercised in admitting as students only those whose previous record shows a character, determination and application evincing a wholesome and real ambition for life."*—JAMES B. DUKE.

*Intelligence and character are the essential qualifications for admission.*

In addition, each candidate must have the following preparation, which includes the minimal requirements for Class A medical schools:

1. At least two years of college work (70 semester-hours), including:
2. *Biology*: At least one year (12 semester-hours, one half of which must be laboratory work, and must include training in embryology). A course in comparative anatomy also is recommended.
3. *Chemistry*: At least two years (10 semester-hours of inorganic chemistry including short or preliminary courses in qualitative and quantitative analysis, and 6 semester-hours of organic chemistry; one-half of each course must be laboratory work). These represent the minimal requirements in chemistry. Additional courses in analytical and physical chemistry are desirable.
4. *Physics*: At least one year (10 semester-hours, one half of which must be laboratory work).
5. *English*: At least two years (12 semester-hours).
6. *Mathematics*: At least one year (6 semester-hours; a working knowledge of logarithms is essential, and one of calculus is desirable).
7. *German*: A reading knowledge of scientific German is highly desirable.
8. Applicants are required to take the aptitude tests of the Association of American Medical Colleges unless specifically excused by the School. These tests are given at most of the colleges and universities in December. Selection is based on the *quality* rather than the *quantity* of preparation.

### REQUIREMENTS FOR ADMISSION TO ADVANCED STANDING

In addition to the requirements for entrance, an applicant for admission to the Junior Class must present evidence that he will complete successfully the first- and second-year curriculum in a Class A medical school consisting of: gross, microscopic and neuro-anatomy, biochemistry, pharmacology, physiology, gross and microscopic pathology, bacteriology, clinical microscopy, and normal and abnormal physical diagnosis. Students who transfer from other medical schools can be admitted only in the Autumn Quarter. They are eligible to receive their certificates in March or June two years later, depending on whether they attend the intervening Summer Quarter. Application forms may be obtained by writing to the Dean, Duke University School of Medicine, Durham, N. C.; they are considered and a decision in regard to admission made as de-



scribed on pages 27-28. All applications must be completed by March 15 if they are to receive consideration. Students at other approved medical schools may, if recommended, transfer to Duke for one or more quarters for regular or special studies. They should write to the Dean for information.

#### **REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE**

After completion of seventy semester-hours in Duke University or other approved university or college, and six quarters in the Duke University School of Medicine, Duke University, on the recommendation of the Executive Committee, grants the degree of Bachelor of Science in Medicine to medical students who have completed creditable investigative work, prepared an acceptable report of the investigation, and passed an examination upon the subject of the investigation before an advisory committee. Students who elect to undertake work toward this degree must obtain written permission from the Executive Committee after approval of their program by the head of the department in which the work is to be done. No credit toward this degree is given for additional college work, and students who have a Bachelor's degree are not eligible, but all students in good standing are encouraged to undertake such investigative work as they may elect when approved by the Curriculum Committee and the head of the department in which they wish to work.

#### **REQUIREMENTS FOR THE DEGREE OF DOCTOR OF MEDICINE**

A certificate is given those who, after fulfilling all the requirements for entrance, have completed, to the satisfaction of the Executive Committee, the twelve quarters of the curriculum of the School of Medicine. The degree of Doctor of Medicine is conferred after the completion of two years in satisfactory training in a hospital or laboratory acceptable to the Executive Committee.

## DEPARTMENTS OF INSTRUCTION

### Anatomy

- F. H. SWETT, *Professor of Anatomy*.  
D. C. HETHERINGTON, *Associate Professor of Anatomy in Charge of Histology and Neurology*.  
W. H. HOLLINSHEAD, *Associate in Anatomy*.  
J. W. EVERETT, *Associate in Anatomy*.  
R. W. GRAVES, *Associate in Neurology and Anatomy*.  
R. C. MACCARDLE, *Instructor in Anatomy*.  
K. A. YOUNGSTROM, *Instructor in Anatomy*.  
I. S. ROSS, *Assistant in Anatomy*.  
W. L. WELLS, *Assistant in Anatomy*.  
MARY E. SHIPP, *Research Assistant in Anatomy*.

Five days per week during the Autumn Quarter, and two days per week during the Winter Quarter of the first year are devoted to the courses of instruction in gross human anatomy, histology, and neurology *required* of all entering students. Further work in these subjects and advanced studies in various other branches of anatomy may be undertaken during the student's free time. Prospective candidates for *elective* work should discuss their wants with the member of the Staff in charge of the particular field in which work is requested, because only a small number can be accommodated in each group. A few properly qualified students may be permitted to undertake original research under the direction of various members of the Staff.

### Biochemistry

- W. A. PERLZWEIG, *Professor of Biochemistry*.  
H. M. TAYLOR, *Assistant Professor of Biochemistry and Toxicology*.  
MARY L. C. BERNHEIM, *Assistant Professor of Biochemistry*.  
ANNE YATES, *Associate in Biochemistry*.  
T. B. COOLIDGE, *Associate in Biochemistry*.  
W. M. NICHOLSON, *Associate in Medicine and Biochemistry*.  
J. S. HARRIS, *Instructor in Pediatrics and Biochemistry*.  
J. R. KLEIN, *Assistant in Biochemistry*.  
A. A. KONDRITZER, *Research Fellow in Biochemistry*.  
H. O. MICHEL, *Assistant in Biochemistry*.  
EDWARD D. LEVY, *Assistant in Biochemistry*.

The *required* course in general biochemistry for first-year students is given in the Autumn and Winter Quarters. One morning each week in the Autumn Quarter is devoted, in discussion groups, to the correlation of the fundamental facts and theories of physical and organic chemistry with the chemistry of living organisms. In the Winter Quarter three lectures and four laboratory periods per week, supplemented by systematic reading and weekly conferences in small groups, are devoted to a more intensive study of the chemistry of the physiological processes of digestion and absorption, circulation and respiration, acid-base and salt equilibrium metabolism including quantitative urine and blood analyses.

Since the success of the students in this course is largely determined by the adequacy and ready availability of their premedical training, it is

urged that all students review the fundamental laws, theories, and facts of chemistry before the beginning of the course. A circular outlining the topics requiring special attention is sent to all students upon admission. Additional copies of the circular may be obtained from the Dean's Office. An examination to test the state of preparation of the student is given in the beginning of the course in biochemistry.

*Electives.* In connection with the course given in the Spring Quarter for second-year students a survey of *pathological and clinical chemistry* is presented. In this course are covered abnormalities of: Protein, fat and carbohydrate metabolism, acid-base regulation, salt and water distribution, nitrogen retention, calcium and phosphorus metabolism, blood and derived bile pigments. The discussion of these topics is based upon case histories, including the records of the Clinical Chemical Laboratory of the Hospital.

*Biochemical Research.* The facilities of the department, including various types of research equipment and the clinical material of the blood chemistry laboratory, are available to properly qualified students for independent or supervised investigations. Chemical investigations of problems in biochemistry or in conjunction with the clinical departments and the Department of Pathology may be carried on.

*Seminar in Toxicology.* A round-table discussion of the homicidal, suicidal and industrial poisons, alcoholism, etc. Autumn or Spring Quarters by arrangement.

*Laboratory Detection of Common Poisons.* A laboratory course in the properties, detection and identification of the common poisons. Consideration is given to the types of material to be examined, legal precautions to be taken and interpretation of the findings. Autumn or Spring Quarters by arrangement.

*Blood Analysis.* A laboratory course in the technic of quantitative blood analysis and in the interpretation as applied in clinical work. Offered in the Autumn Quarter.

### Physiology, Pharmacology, and Nutrition

- G. S. EADIE, *Professor of Physiology and Pharmacology.*  
F. D. MCCREA, *Associate Professor of Physiology and Pharmacology.*  
FREDERICK BERNHEIM, *Associate Professor of Physiology and Pharmacology.*  
W. J. DANN, *Assistant Professor of Physiology and Nutrition.*  
MACDONALD DICK, *Associate in Medicine, Physiology and Pharmacology.*  
E. S. ORGAIN, *Associate in Medicine and Physiology.*  
J. E. MORGAN, *Instructor in Roentgenology and Physiology.*  
H. I. KOHN, *Instructor in Physiology and Pharmacology.*  
C. BEAMER, *Assistant in Physiology and Pharmacology.*

The *required* courses consist of (a) a lecture course in physiology, (b) a lecture course in pharmacology, (c) a lecture course on the elements of nutrition, supplemented by demonstrations of some biological and chemical methods employed in nutrition studies, (d) a laboratory course in physiology and pharmacology, and (e) a seminar in which the problems arising in the laboratory and in the student's reading are discussed.



*Elective* courses covering particular aspects of these subjects, including pathological physiology and research in special fields, are available

*Research.* A few properly qualified students are permitted to undertake original research in physiology, pharmacology, or nutrition under the direction of various members of the Staff.

### Pathology

- W. D. FORBUS, *Professor of Pathology.*  
D. H. SPRUNT, *Associate Professor of Pathology.*  
R. D. BAKER, *Assistant Professor of Pathology.*  
C. C. ERICKSON, *Instructor in Pathology.*  
E. L. WILBUR, *Assistant in Pathology.*  
L. V. DILL, *Assistant in Pathology.*  
G. T. HARRELL, JR., *Assistant in Pathology.*  
P. B. PARSONS, *Assistant in Pathology.*  
W. C. SEALY, *Assistant in Pathology.*  
W. H. BRIDGERS, *Assistant in Pathology.*  
I. H. MANNING, *Assistant in Pathology.*

The *required* course in general pathology for second-year students is given in the Autumn and Winter Quarters. The class is divided into small groups, one instructor and an assistant being assigned to each group. For the purpose of teaching the gross pathological alterations of tissue, the museum material, which consists of complete cases preserved as units, has been classified into well-organized groups, such as obstructions, diseases due to animal parasites, tumors, etc., each group of materials being placed in a separate laboratory. The various student groups work with these groups of material in rotation. The microscopic aspects of pathological processes are studied by the students at the same time the gross pathological features of the disease are being considered. Physiological, chemical and bacteriological phases of the various disease processes are presented to the student by constant reference to the autopsy protocols and clinical studies of the cases which are being considered by the groups, and by visits to the Hospital wards. Once each week a clinic is presented for the class; the subjects of the clinics are cases from the Hospital which illustrate pathological processes being currently studied. Lectures on general subjects of wide application are given in co-ordination with the museum case studies. Attendance at autopsies is required of the students of the second year, the class being divided into small groups which are called in turn. The group members are required to follow all studies of the cases which they see and to prepare their own complete records. Cases thus prepared are presented by the students before the entire class under the direction of the Staff.

*Elective* courses in pathology in the Spring Quarter are available for a limited number of students who have completed the course in general pathology. Research facilities are provided in the department for students who are competent to undertake investigation.

On Wednesdays at 5 P.M., during the Autumn, Winter, and Spring Quarters, a clinical-pathological conference is held in co-operation with the staffs of the clinical departments. While this conference is designed especially for the Hospital Staff, it is open to all members of the medical

profession and students of medicine. Students of the second, third, and fourth years routinely attend this conference. A gross diagnostic clinical-pathological conference on current autopsies is held weekly in collaboration with the clinical departments. This conference is required of the students of the third and fourth years.

### Bacteriology and Parasitology

D. T. SMITH, *Professor of Bacteriology and Associate Professor of Medicine.*  
 A. S. PEARSE, *Professor of Zoology.*  
 D. S. MARTIN, *Assistant Professor of Bacteriology and Associate in Medicine.*  
 N. F. CONANT, *Associate in Bacteriology and Mycology.*  
 MARY A. POSTON, *Instructor in Bacteriology.*  
 E. E. MENEFFEE, JR., *Research Fellow in Medicine and Bacteriology.*

*Bacteriology, Mycology, Immunology, and Parasitology.* The required course is given in the Autumn Quarter of the second year. An intensive study is made of the common bacteria, fungi, and parasites which cause disease in man. The scope of the laboratory course is reasonably wide and acquaints the student with all the methods and procedures employed in bacteriological laboratories. Most of the lecture time is devoted to the immunological and epidemiological aspects of infection. We are especially interested in the student's having a clear conception of: (1) how organisms gain entrance to the body, (2) the type of poisons which they produce, (3) the nature of immune bodies which are produced by the host, and (4) the methods of preventing the disease by active and passive immunization. *Research Bacteriology.* Opportunities for original investigations are afforded a few specially qualified students. *Clinical Bacteriology.* During their clinical clerkships on medicine (one quarter each for Junior and Senior classes), the students may perform the routine and special bacteriological work for the patients assigned to them on the teaching service, under the direction of the Department of Bacteriology and in parallel with the Biological Division of the medical clinics.

### Medicine

FREDERIC M. HANES, *Florence McAlister Professor of Medicine.*  
 D. T. SMITH, *Professor of Bacteriology and Associate Professor of Medicine.*  
 R. S. CRISPELL, *Associate Professor of Medicine in Charge of Neuropsychiatry.*  
 O. C. E. HANSEN-PRÜSS, *Associate Professor of Medicine in Charge of Clinical Microscopy.*  
 CHRISTOPHER JOHNSTON, *Assistant Professor of Medicine in Charge of Cardiology and Diseases of Metabolism.*  
 J. M. RUFFIN, *Associate Professor of Medicine in Charge of Physical Diagnosis.*  
 WALTER KEMPNER, *Associate in Medicine.*  
 D. S. MARTIN, *Assistant Professor of Bacteriology and Associate in Medicine.*  
 E. L. PERSONS, *Associate in Medicine and Dermatology.*  
 MACDONALD DICK, *Associate in Medicine, Pharmacology and Physiology.*  
 R. W. GRAVES, *Associate in Neurology and Anatomy.*  
 E. S. ORGAIN, *Associate in Medicine and Physiology.*  
 SUSAN GOWER SMITH, *Associate in Medicine.*  
 W. M. NICHOLSON, *Associate in Medicine and Biochemistry.*  
 MALCOLM D. KEMP, *Associate in Clinical Psychiatry.*  
 BEVERLEY E. SMITH, *Associate in Clinical Psychiatry.*  
 J. LAMAR CALLAWAY, *Instructor in Medicine, Dermatology, and Syphilology.*

T. T. JONES, *Instructor in Medicine.*  
S. C. HALL, *Instructor in Medicine.*  
E. E. MENEFFEE, JR., *Research Fellow in Medicine and Bacteriology.*  
RAYMOND REISER, *Research Fellow in Medicine.*  
E. B. CRAVEN, JR., *Instructor in Medicine.*  
R. L. McMILLAN, *Instructor in Medicine.*  
R. Z. QUERY, JR., *Resident, Instructor in Medicine.*  
O. N. SMITH, *Instructor in Medicine.*  
R. D. ADAMS, *Assistant in Medicine.*  
E. CALDWELL, *Assistant in Medicine.*  
J. M. JONES, *Assistant in Medicine.*  
W. SCHULZE, *Assistant in Medicine.*  
R. WILLIAMS, *Assistant in Medicine.*  
N. B. WISE, *Assistant in Medicine.*

*Clinical Microscopy* is given in the Winter Quarter of the second year. The course includes the essentials of hematology and the examination of fresh material, such as urine, stools, spinal fluid, sputum, transudates and exudates. The most important parasites of man are studied by the use of fresh and museum material. Second-year and Senior students are given opportunities for special work and for investigation.

*Physical Diagnosis and Introduction to Clinical Medicine.* This course, in the Spring Quarter of the second year, consists of instruction in history taking, physical examination, and the application of the preclinical sciences to the interpretation of findings. All departments, preclinical and clinical, including the specialties, participate. The importance of co-operation between clinic and laboratory is emphasized, and the preclinical departments extend the teaching of their particular branches in correlation with other preclinical and clinical studies. In this manner the course serves as an introduction to clinical medicine. The class is divided into sections of not more than ten students, and each student is given individual instruction.

*Junior Medicine.* Junior students are assigned in small groups for one quarter to the medical wards as clinical clerks. Ward rounds are held from 8:30 to 9:30 A.M., on Mondays, Wednesdays, and Fridays. During the Autumn, Winter and Spring Quarters, medical clinics are given on Mondays, Wednesdays, and Saturdays at 11:30 A.M., and on Wednesdays, during the Summer Quarter.

*Senior Medicine.* Senior students are assigned for one quarter to the Dispensary as clinical clerks. Ward rounds are held from 9:30 to 11:30 A.M. on Mondays and Fridays. Seniors attend medical clinics on Mondays, Wednesdays, and Saturdays at 11:30 A.M.

*Neuropsychiatry.* Instruction is started in the second year with a course that covers psychobiology and general psychopathology, and which serves as a bridge between the student's work in academic psychology and clinical neuropsychiatry. This course is concerned with the modern conception of the personality, its neurophysiological basis, growth and development, and traits, normal and abnormal. The problems of intelligence, intelligence testing, and mental deficiency are discussed. The students are trained in neuropsychiatric method and examination, and they make a psychiatric or personality make-up examination upon themselves.

Instruction in neuropsychiatry for Junior and Senior students is continued by weekly lecture-clinics during the Autumn, Winter, and Spring Quarters. In the Autumn Quarter the emphasis is on neurology; in the Winter and Spring Quarters the clinical study of psychiatry is developed. Mental disorders in general are considered, and the major psychoses are specifically outlined. The didactic work in neuropsychiatry is supplemented by clinics and by the student's actual experience in handling such psychiatric problems as occur on the wards and in the Public Dispensary of the Hospital. The problems of the psychoneuroses, psychotherapy, and mental hygiene are emphasized.

In addition, clinics are held in the North Carolina State Hospital, Raleigh, N. C. This institution, with over two thousand patients, is co-operating splendidly with the School of Medicine. Special and elective work in psychiatry is offered to students who are especially interested. For this, not only the facilities above mentioned, but also those of the North Carolina Caswell Training School for the mentally deficient are available. Before graduation, it is sought to give the student a workable conception of the individual as a whole, the psychobiological unit, that may be applied in practice.

### Surgery

DERYL HART, *Professor of Surgery.*

C. E. GARDNER, JR., *Associate Professor of Surgery.*

R. R. JONES, JR., *Assistant Professor of Surgery.*

J. W. BEARD, *Assistant Professor of Surgery in Charge of Experimental Surgery.*

E. P. ALYEA, *Associate Professor of Surgery in Charge of Urology.*

W. B. ANDERSON, *Associate Professor of Surgery in Charge of Ophthalmology.*

W. W. EAGLE, *Associate Professor of Surgery in Charge of Otolaryngology.*

\*A. R. SHANDS, JR., *Associate Professor of Surgery in Charge of Orthopedics.*

BARNES WOODHALL, *Assistant Professor of Surgery in Charge of Neurosurgery.*

HAROLD FINKELSTEIN, *Associate in Surgery.*

WALTER MARX, *Research Associate in Surgery and Biochemistry.*

R. V. FLETCHER, *Instructor in Surgery.*

G. W. JOYNER, *Instructor in Surgery.*

H. M. SCHIEBEL, *Instructor in Surgery.*

L. D. BAKER, *Instructor in Orthopedics.*

E. C. HOLSCHER, *Instructor in Orthopedics.*

J. E. JACOBS, *Instructor in Orthopedics.*

R. B. RANEY, *Instructor in Orthopedics.*

W. E. DANIEL, *Instructor in Urology.*

G. E. STAYER, *Instructor in Otolaryngology.*

G. B. FERGUSON, *Instructor in Bronchoscopy.*

T. W. ATWOOD, *Associate in Dentistry.*

J. W. DEVINE, JR., *Assistant in Surgery.*

H. S. MUNROE, JR., *Assistant in Surgery.*

L. C. ROBERTS, *Assistant in Surgery.*

S. E. UPCHURCH, *Assistant in Surgery.*

W. D. FARMER, *Assistant in Otolaryngology.*

*General Surgery.* In the Spring Quarter the second-year students, during their course in physical diagnosis, attend clinics and demonstrations arranged to familiarize them with the technique of examinations

\* On leave 1937-38.



and the diagnostic procedures used in general surgery and the surgical specialties. Emphasis is placed on the more practical and commonly used methods.

During the Autumn, Winter, Spring and Summer Quarters, at 11:30 A.M. on Tuesdays and Fridays, and during the Autumn, Winter and Spring Quarters at 9:30 A.M. on Saturdays, clinics in surgery and the surgical specialties are held for Junior and Senior students. The *Junior* students, during their surgical quarter, attend ward rounds in surgery from 8:30 to 10:30 A.M., on Mondays, Wednesdays, and Fridays, act as clinical clerks on the wards, avail themselves of the electives offered and attend the regular clinics. The surgical group in the *Senior* year attends ward rounds from 8:30 to 10:30 A.M. on Mondays, Wednesdays, and Fridays, the regular clinics and the electives offered, and assists in the surgical dispensary in the afternoons. Individuals may take any of the electives offered.

An *elective* course in operative surgery is given in the experimental laboratory during the Autumn and Spring Quarters. This course is scheduled from 8:30 to 11:30 A.M. on Tuesdays and Thursdays. The group is divided into operating teams, and each student takes his turn serving as the operator, first assistant, and anesthetist. During the Winter Quarter special work in experimental surgery may be arranged by conference with the instructor. The purpose of this course is to teach the basic principles of aseptic surgery as well as of anesthesia. Incidentally the student performs a number of operations illustrating various types of surgery, the operative procedures being of gradually increasing difficulty.

An *elective* course in emergency and traumatic surgery is given each quarter. In groups of two, each week, Junior or Senior students are on call in the emergency room for all accidents and emergencies. Opportunity is given to observe and assist in the treatment of accident cases and in the diagnosis of acute abdominal emergencies. Lectures, twice each week, during the Winter Quarter, supplement this course.

An *elective* course in anesthesia is open to four properly qualified Senior students, each quarter. Students meet the anesthetist each morning in the operating room and observe and administer anesthetics under supervision.

*Ophthalmological Division.* During the Spring Quarter second-year students receive instruction in elementary ophthalmology. During the Junior obstetrical quarter the students are assigned to the ophthalmological clinic on Tuesday and Friday afternoons for five and one-half weeks, and assist in the study and treatment of eye diseases. Especial emphasis is placed on the underlying medical and surgical conditions. Each student follows throughout his time in the clinic all patients assigned to him. For those who manifest an unusual interest in this specialty, provision will be made for a more advanced work. An elective course in diseases of the eye, including refraction and the use of diagnostic instruments, is given each quarter on Thursday morning along with a similar elective in otolaryngology.

*Orthopedic Division.* In the Spring Quarter of the second year an introductory course in orthopedics is given. During the surgical quarters the Junior and Senior students attend ward rounds at 8:30 A.M. on Monday. Clinics are held during the Autumn Quarter on Friday at 11:30 A.M. for Juniors and Seniors. Students in their Senior Surgical Quarter are assigned in rotation to the orthopedic dispensary which is held in the afternoons. Special work may be arranged for students who wish to do research or experimental work. An elective course in orthopedic pathology is offered for one hour per week during the Winter Quarter for Juniors and Seniors. Lectures on fractures are given on Tuesday and Thursday morning at 10:30 during the Fall and Winter Quarters for Juniors and Seniors. Students are given the opportunity of attending the North Carolina Orthopedic Hospital Clinic at Goldsboro once a month. They may also attend similar clinics held once a month in Elizabeth City, Tarboro, and Lumberton.

*Otolaryngological Division.* An introductory course of instruction in the use of otolaryngological instruments, with a review of normal anatomy, is given to second-year students in the Spring Quarter. Clinics on Fridays at 11:30 A.M. during the Spring Quarter are given to Junior and Senior students. Junior students during their obstetrical quarter spend two afternoons for five and one-half weeks in the otolaryngological dispensary. There are no formal teaching otolaryngological ward rounds, but Junior and Senior students are assigned to patients during the surgical quarter. Individual instruction is given the student by the various members of the Staff. An *elective* course on the anatomy, physiology, and diseases of the ear, nose and throat will be arranged for those desiring it. An elective course on diseases of the ear, nose and throat, including X-ray interpretation and the use of diagnostic instruments is given on Thursday morning of each quarter along with a similar elective in ophthalmology.

*Urological Division.* In the Spring Quarter, second-year students are given a course of lectures and practical demonstrations in urological physical diagnosis in the normal individual. Ward rounds on urological patients are given every Saturday at 8:30 A.M., throughout the year, which Junior students in their surgical quarter, and the Senior surgical group are required to attend. During each quarter, small groups are selected from the Senior surgical group of students and assigned in rotation to the urological dispensary on Tuesday and Friday afternoons. Here, under proper supervision, they study patients and give recommended treatment. During one and a third quarters of the year urological lectures are given on Fridays at 11:30 A.M. for the Junior and Senior classes. These lectures deal with the affections of the male and female urinary tract and of the male genital tract. Clinics for urethroscopic and cystoscopic investigation and the more technical methods of urological diagnosis and treatment are held Wednesdays from 1:30 to 5:00 P.M. and Thursdays from 9:30 A.M. to 12:30 P.M., and from 1:00 to 5:00 P.M. throughout the year. X-ray conferences on all urological cases are held Tuesday, Thursday, and Saturday mornings from 8:30 to 9:30, and are

followed by staff rounds. Three Senior students may select one of these clinics, X-ray conferences and staff rounds as an elective.

*Neuro-surgical Division.* During the Autumn, Winter, Spring and Summer Quarters, at 11:30 A.M., on every third Tuesday, neuro-surgical amphitheater clinics are held for Junior and Senior students. In these clinics, the general principles of neuro-surgical diagnosis and treatment are discussed. During all four quarters, weekly ward rounds are held at 8:30 A.M. on Wednesdays for the surgical group in the Senior year. Emphasis is placed in these smaller clinics upon the recognition of neuro-surgical problems, followed by observation of the operating and post-operative procedures. Weekly X-ray and pathological conferences are held which may be attended by interested individuals.

*Dentistry.* Second-year students, in the Spring Quarter, are instructed in the principles of dentistry.

### Roentgenology

R. J. REEVES, *Associate Professor of Roentgenology.*

W. W. VAUGHAN, *Instructor in Roentgenology.*

J. E. MORGAN, *Instructor in Roentgenology and Physiology.*

E. K. HARRISON, *Instructor in Roentgenology.*

E. G. REUTER, *Assistant in Roentgenology.*

A course with especial reference to differential diagnosis and X-ray and radium therapy is given during the Senior surgical quarter.

### Obstetrics and Gynecology

BAYARD CARTER, *Professor of Obstetrics and Gynecology.*

E. C. HAMBLEY, *Associate Professor of Obstetrics and Gynecology.*

R. A. ROSS, *Associate Professor of Obstetrics and Gynecology.*

W. L. THOMAS, JR., *Assistant Professor of Obstetrics and Gynecology.*

W. Z. BRADFORD, *Director, Charlotte Maternity Clinic.*

R. L. PEARSE, *Instructor in Obstetrics and Gynecology.*

G. D. SEITZ, *Assistant in Obstetrics and Gynecology.*

E. M. RUCKER, *Assistant in Obstetrics and Gynecology.*

C. K. FRASER, *Assistant in Obstetrics and Gynecology.*

J. W. JONES, *Assistant in Obstetrics and Gynecology.*

Second-year students receive seventeen hours of instruction in the fundamentals of obstetrics and gynecology during their course in physical diagnosis in the Spring Quarter. Clinics and demonstrations for Junior and Senior students are held on Saturdays at 10:30 A.M. during the Autumn, Winter, and Spring Quarters, and on Mondays at 11:30 A.M. in the Summer Quarters. During one quarter of the Junior year each group of students attends ward rounds at 8:30 A.M. on Mondays, Wednesdays, and Saturdays, and the Public Dispensary at 1:30 P.M. daily, except Saturdays, Sundays, and holidays for eleven weeks. They also attend an endocrine clinic once a week for eleven weeks during the Junior year. The students also spend part of each day on the wards. Senior students, during their surgical quarter, have ward rounds on obstetrics and gynecology on Saturdays at 8:30 A.M. Each Senior student, during his specialties quarter, is required to spend two weeks on service with the Outside Obstetrics Training Group at Charlotte, North Carolina. This group is



active in the antepartum care, in the delivery of the patients, and in the postpartum care of patients registered by the Maternity Clinic of that city. The group is under the direction of a trained obstetrician.

*Elective* courses in the diagnosis and treatment of obstetrics and gynecologic conditions are offered for Junior and Senior students.

### Pediatrics

W. C. DAVISON, *Professor of Pediatrics.*

ANGUS MCBRYDE, *Assistant Professor of Pediatrics.*

J. M. ARENA, *Associate in Pediatrics.*

A. H. LONDON, *Instructor in Pediatrics.*

L. P. RASMUSSEN, *Instructor in Pediatrics.*

J. S. HARRIS, *Instructor in Pediatrics and Biochemistry.*

MILDRED M. SHERWOOD, *Supervisor in Pediatric Nursing.*

Each *second-year* student receives nine hours of instruction in elementary pediatrics during the course in physical diagnosis in the Spring Quarter. *Junior* and *Senior* students, during their medical quarters, have pediatric ward rounds on Saturdays from 8:30 to 9:30 A.M. The *Senior* students are divided into three groups, each of which spends one quarter in pediatrics. During this quarter, they are assigned daily as clinical clerks on the children's ward, nursery and pediatric dispensary, attend ward rounds, at 8:30 A.M. on Mondays, Wednesdays, and Fridays, are instructed in the practical nursing of infants by Miss Sherwood on Fridays at 10:30 A.M., assist in the treatment of pediatric patients in the syphilis clinic on Thursdays at 7 P.M., and are taught the preparation of diets for infants and children by the Professor of Dietetics. Each student attends six infant feeding clinics during this quarter. On Thursdays at 11:30 A.M., the *Junior* and *Senior* students attend demonstrations at which the preclinical basis, as well as the clinical aspects, of disease are emphasized. *Elective courses:* *Senior* students may attend the infant feeding clinic on Tuesdays at 10 A.M., do research work, or assist in pediatric ward or dispensary one or more mornings per week, according to the time at their disposal.

### Legal Medicine and Toxicology

J. B. BRADWAY, *Professor of Law.*

T. D. BRYSON, *Professor of Law.*

W. D. FORBUS, *Professor of Pathology.*

D. T. SMITH, *Professor of Bacteriology and Associate Professor of Medicine.*

H. M. TAYLOR, *Assistant Professor of Biochemistry and Toxicology.*

This course embraces a discussion of the relation of physicians to legal criminal procedures; jurisdiction of the coroner and medical examiner; laws governing the dead human body; personal identity of the living and the dead; the legal autopsy; traumatic injuries and fractures; rape; abortion; asphyxial death; homicidal, suicidal, and industrial poisoning; alcoholism; the examination of blood, stains, fibers, and the detection of malingering. The course is open to students in the seventh to twelfth quarters and is given in alternate years. To be given in 1938-39. Discussions of medico-legal problems for the House Staff and *Senior* students, and joint conferences of the medical and law students also are held.

### Preventive Medicine and Public Health

BAYARD CARTER, *Professor of Obstetrics and Gynecology.*

W. C. DAVISON, *Professor of Pediatrics.*

G. S. EADIE, *Professor of Physiology and Pharmacology.*

J. H. EPPERSON, *Health Officer, Durham City and County.*

ANGUS MCBRYDE, *Assistant Professor of Pediatrics.*

D. T. SMITH, *Professor of Bacteriology and Associate Professor of Medicine.*

H. M. TAYLOR, *Assistant Professor of Biochemistry and Toxicology.*

*A Lecture Course* includes instruction in the epidemiology and control of communicable diseases; maternal, infant and child hygiene; the collection of vital statistics and the function of federal, state, and local public health organizations. *A Field Course*, through the co-operation of Mr. G. Watts Hill, Mr. V. C. Ashbaugh, Mr. W. M. Piatt, and Capt. J. C. Michie, comprises instruction in and demonstration of principles and methods of milk control, ventilation, disinfection, fumigation, sewage disposal, and water supply. These courses are open to students in their seventh to twelfth quarters and are given in alternate years. To be given in 1938-39. *A Laboratory Course* is given in the Autumn Quarter of the second year by the Department of Bacteriology, and consists of the identification and virulence testing of diphtheria cultures, the isolation of stool, throat and blood organisms, the practical examination of water, Schick, Dick and tuberculin tests, and vaccination against typhoid and smallpox. *Elective*: Through the co-operation of several city and county health officers, students may spend one or more weeks in observing and assisting in the operation of these public health units.

### CURRICULUM OF THE SCHOOL OF MEDICINE

The usual four medical school years of thirty-three weeks each may be condensed into three and one quarter calendar years. In the preclinical subjects three terms and in the clinical subjects four terms, each of eleven weeks, are given during the year, and a certificate is granted after the satisfactory completion of twelve terms. These may be taken consecutively (certificate in three and one quarter years) if the student's previous work has been outstanding and if he has been given permission by the Curriculum Committee; or three terms may be taken each year (certificate in four years). Such a curriculum will affect in no way the course at any other medical school. If students who have received their first two years of training at other medical schools wish to spend their clinical years at the Duke University School of Medicine, they are eligible in October for the seventh quarter, which corresponds to the beginning of the usual Junior Class (see page 28).

Every effort is made to emphasize the close relationship of preclinical and clinical instruction. Members of the Clinical Staff assist in the teaching of preclinical subjects and demonstrate, to the students of the first two years, patients whose conditions illustrate the subjects being taught. Thus, from the student's first days, he is impressed with the interdependence of all branches of the medical science. During the sixth quarter every department of the School participates in a correlation course,

which, combined with the teaching of physical diagnosis, serves to give the student just entering his clinical years a co-ordinated introduction to medicine in all its aspects. From the seventh to twelfth quarters, pre-clinical instructors assist the Clinical Staff in presenting the underlying basis of disease.

Nineteen per cent of the time in this curriculum is free for elective work or anything else which the student wishes to do. No credits are given for specific courses during this free time. The opportunity merely is provided for each student, on his own initiative, to obtain the additional training which he may feel to be necessary or desirable. It is hoped that many of the students will migrate to other medical schools in this country or abroad for one quarter, a practice which is encouraged. The students also may utilize their free time in elective courses in pre-clinical and clinical departments and may pursue independent work in any subject or may do research work. The elective courses have been organized for small groups and will be repeated, if necessary, in one or more quarters. Students who wish to study during the Summer Quarter, either here or elsewhere, to spend one or more quarters at other medical schools or to substitute a program different from that listed below, must obtain permission, in advance, from the Curriculum Committee.

#### **CURRICULUM OF FOUR QUARTERS OF ELEVEN WEEKS EACH**

(The hours for these courses will be posted on the bulletin board.)

#### **FIRST YEAR**

##### **AUTUMN QUARTER (1st):**

September 29 to December 17, 1938.

Anatomy (including histology and neuro-anatomy) .....	385	Hours
Biochemistry .....	18	Hours
Free time .....	26	Hours

##### **WINTER QUARTER (2d):**

January 3 to March 19, 1938.

Anatomy (including histology and neuro-anatomy) .....	165	Hours
Biochemistry .....	176	Hours
Free time .....	88	Hours

##### **SPRING QUARTER (3d):**

March 28 to June 11, 1938.

Physiology and pharmacology, including nutrition .....	330	Hours
Free time .....	99	Hours

#### **SECOND YEAR**

##### **AUTUMN QUARTER (4th):**

September 29 to December 17, 1938.

Pathology .....	198	Hours
Bacteriology and Parasitology .....	150	Hours
Introduction to Psychiatry .....	11	Hours
Free time .....	70	Hours

## WINTER QUARTER (5th) :

January 3 to March 19, 1938.

Pathology .....	198	Hours
Bacteriology .....	11	Hours
Clinical microscopy .....	110	Hours
Free time .....	110	Hours

## SPRING QUARTER (6th) :

March 28 to June 11, 1938.

Physical diagnosis and introduction to clinical medicine .....	300	Hours
Free time .....	129	Hours

## JUNIOR YEAR

SUMMER QUARTER (7th) :\*  
June 20 to September 3, 1938.

Medicine (Junior) .....	385	Hours
Free time .....	44	Hours

AUTUMN QUARTER (8th) :\*  
September 29 to December 17, 1938.

Surgery (Junior) .....	418	Hours
Free time .....	11	Hours

WINTER QUARTER (9th) :\*  
January 3 to March 19, 1938.

Obstetrics and gynecology (Junior) .....	220	Hours
Ophthalmology and Otolaryngology .....	66	Hours
Free time .....	143	Hours

## SENIOR YEAR

SPRING QUARTER (10th) :\*  
March 28 to June 11, 1938.

Medicine (Senior) .....	308	Hours
Free time .....	121	Hours

SUMMER QUARTER (11th) :\*  
June 20 to September 3, 1938.

Surgery (Senior) including Urology and Orthopedics .....	309	Hours
Obstetrics .....	120	Hours

AUTUMN QUARTER (12th) :\*  
September 29 to December 17, 1938.

Pediatrics .....	191	Hours
Medicine .....	83	Hours
Final clinical examinations .....	24	Hours
Free time .....	131	Hours

## SUMMARY

Total number of hours required instruction, (81%) .....	4,175
Total number of hours of free time, (19%) .....	973
Total number of hours in curriculum, (100%) .....	5,148

\* The clinical instruction is repeated each quarter in order to utilize all the clinical material and to have small groups of students. Consequently, students may vary the order of the seventh, eighth, and ninth quarters, and also the order of the tenth, eleventh, and twelfth quarters. Students, who do not attend the Summer Quarters, have similar instruction one quarter later. The above schedule merely illustrates the program of one group.

## FEES AND EXPENSES

All fees for each quarter are due and payable at the beginning of each quarter, and no student will be admitted to classes until these fees have been paid at the University Treasurer's Office. A fine of \$5.00 is charged for late registration. No credit will be given for any quarter in which the tuition of \$150 has not been paid at the Treasurer's Office, whether the work has been done here or elsewhere, except: (1) students who have been given permission by the Curriculum Committee to spend a quarter at a European medical school or hospital will have their tuition of \$150 for that quarter remitted and (2) students who have been permitted by the Curriculum Committee to spend a quarter at another American medical school or hospital may subtract the amount of tuition paid at this other medical school or hospital from the \$150 due here for that quarter.

It is not advisable for a student to attempt outside work to defray his expenses; the results usually are disastrous to his health and academic standing.

### Fees and Expenses

Tuition, per quarter .....	\$150
Health fee, per quarter .....	3.33
Athletic fee, admitting students to all athletic contests held on the University grounds during the quarter .....	5
Room-rent, per quarter* (estimated) .....	50
Board, per quarter (estimated) .....	75
Laundry, per quarter (estimated) .....	10 to 20
Books, per quarter (estimated) .....	25 to 50
Commencement and diploma fees** .....	8
National Board of Medical Examiners fees** 25 (Part I), 20 (Part II)	
Microscope, ophthalmoscope, otoscope and other equipment, which are required of each student and which must conform to rigid standards, may be obtained on a rental basis from the University	20 to 30
Estimated total expenses, per month .....	100 to 150

### ANGIER B. DUKE MEMORIAL AND OTHER LOAN FUNDS

The Angier B. Duke Memorial, Incorporated, administers through an advisory committee of the officers of the University a loan fund for students. In addition, the University administers other endowed loan funds for the benefit of students who are not financially able to meet their expenses. Medical students, after their third quarter, are eligible for loans from these sources. No scholarships are awarded in the School of Medicine. The loan funds are administered in accordance with the following regulations:

1. No loan will be made to a student who violates any of the regulations of the University or who is not doing outstanding class work.

\* A few rooms in the University dormitories may be available for medical students. These rooms are provided with furniture, heat, electric light, and care of rooms; each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Meals may be had at the Union on the campus.

\*\* Payable at the beginning of the quarter in which a student is eligible for a degree or examination.



2. Loans will be made only to students who are taking full courses of study that lead to a degree, and all loans must be arranged not later than one week after the beginning of a quarter.

3. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money will be advanced before a note with approved security is in the hands of the Treasurer of the University.

4. Interest at the rate of 6 per cent annually shall be charged for all loans of money, and the interest must be paid annually.

### RESEARCH FELLOWSHIPS

The Anna H. Hanes Research Fellowship, in the Department of Medicine, held by Dr. Raymond Reiser.

The Lederle Laboratories Research Fellowship, in the Department of Biochemistry, held by Mr. Albert A. Kondritzer.

The James A. Greene Brucella Research Fellowship, in the Department of Medicine, held by Dr. Elijah E. Menefee, Jr.

# LIST OF SCHOOL OF MEDICINE STUDENTS

## FIRST-YEAR STUDENTS

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Ellis Wentworth Adams..... <i>University of Michigan; Michigan State College.</i>	Ypsilanti, Mich.....	Duke University, House B.
Richard Haight Ames..... <i>Haverford College.</i>	Hagerstown, Md.....	Duke Hospital.
Elizabeth Dodson Anderson..... <i>Barnard College.</i>	Litchfield, Conn.....	1008 Green St., Durham, N. C.
Kenward Oliver Babcock..... <i>San Mateo Jr. College; Stanford University.</i>	Ontario, Calif.....	Duke University, House A.
Gareth Bonsack Barnes..... <i>Antioch College; Brigewater College.</i>	Elgin, Ill.....	Duke University, House B.
Ralph Etheridge Baum..... <i>Duke University.</i>	Kitty Hawk, N. C.....	Duke University, House C.
Steven I. Bednarz..... <i>Rutgers University.</i>	Wallington, N. J.....	810 Second St., Durham, N. C.
Edward Perry Benbow, Jr..... <i>Guilford College; University of North Carolina.</i>	Greensboro, N. C.....	Duke University, House B.
Emil Charles Beyer..... <i>Duke University.</i>	White Plains, N. Y.....	Duke University, House T.
Edwin Wells Brown..... <i>Biltmore College; Duke University.</i>	Asheville, N. C.....	Duke University, House A.
James Walter Brown, Jr..... <i>Duke University.</i>	Gatesville, N. C.....	Duke University, House D.
Kenneth Brien Brown..... <i>Franklin and Marshall College.</i>	Montclair, N. J.....	Duke University, House B.
Woodrow William Burgess..... <i>Duke University.</i>	Royal Oak, Mich.....	2204 Englewood Ave., Durham, N. C.
Joseph Kalil David, Jr..... <i>University of Florida; Duke University.</i>	Jacksonville, Fla.....	Duke University, House B.
J. Harold Donaldson, Jr..... <i>Marshall College.</i>	Huntington, West Va.....	Duke University, House B.
Frederick Duncan Elliott..... <i>Dickinson College.</i>	Coudersport, Pa.....	Medical School.
John Ernest Emmett..... <i>Lafayette College.</i>	New York City.....	1120 Main St., Durham, N. C.
William Allen Exum..... <i>Davidson College; Duke University.</i>	Snow Hill, N. C.....	Duke University, House V.
Paul T. Forth..... <i>University of Michigan.</i>	Rochester, N. Y.....	Duke University, House B.
James S. Gilliam, Jr..... <i>University of North Carolina.</i>	Elon College, N. C.....	Duke University, House B.
Henry Boone Grant..... <i>University of North Carolina.</i>	Garysburg, N. C.....	Duke University, House B.
Briant Bowman Guerin..... <i>Morris County Junior College; Duke University.</i>	Mendham, N. J.....	Duke Hospital.



<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Hubert B. Haywood, Jr. <i>University of North Carolina.</i>	Raleigh, N. C.	108 Buchanan Road, Durham, N. C.
Donald Vincent Hirst <i>Duke University.</i>	Durham, N. C.	1507 Duke University Road, Durham, N. C.
Charles William Hock <i>Bluefield College; Duke University.</i>	Bluefield, West Va.	Duke University, House A.
James Weston Hodges <i>North Carolina State; East Carolina Teachers' College.</i>	Greenville, N. C.	1515 W. Pettigrew St., Durham, N. C.
William Nolen Horsley <i>Duke University.</i>	Belmont, N. C.	Duke University, House A.
Richard Carroll Irving <i>Muskingum College.</i>	Conneaut, Ohio	1000 Lamond Ave., Durham, N. C.
Stanley Karansky <i>Columbia University.</i>	Brooklyn, N. Y.	1021 Gloria Ave., Durham, N. C.
William Hummel Karmany <i>Gettysburg College; The Johns Hopkins University School of Hygiene &amp; Public Health.</i>	Hummelstown, Pa.	Duke University, House A.
William Baugher Kintzing <i>Dickinson College.</i>	Hanover, Pa.	Medical School.
Glenn Augustus Kiser <i>University of North Carolina.</i>	Bessemer City, N. C.	Duke University, House B.
Tarcila Laperal <i>University of Philippines; University of Santo Tomas; Rollins College.</i>	Manila, P. I.	Trudeau Sanatorium, Trudeau, N. Y.
Frank Rambo Mann <i>University of Georgia.</i>	McRae, Ga.	2413 Club Blvd., Durham, N. C.
Archibald Graham McIlwaine Martin, III <i>Randolph-Macon College; S. S., North Carolina State College; S. S., University of North Carolina.</i>	Suffolk, Va.	Duke Hospital.
Rudolph Powers McCulloch <i>Michigan State Normal.</i>	Ypsilanti, Mich.	Duke University, House B.
Oscar Lee McFadyen, Jr. <i>Duke University; Wake Forest College.</i>	Fayetteville, N. C.	Duke University, House A.
Addison Lee Messer <i>University of Florida.</i>	Tallahassee, Fla.	Duke University, House C.
Muriel Meyers <i>Hood College.</i>	Pittsburgh, Pa.	305 Faculty Apartments, Durham, N. C.
Leon Howard Mims, Jr. <i>The Citadel; University of South Carolina.</i>	Florence, S. C.	Duke Hospital.
Edwin Hastings Mulford, II <i>Duke University; S. S., Cornell University.</i>	Little Falls, N. Y.	Duke University, House B.
Jesse Phillip Muse <i>Duke University.</i>	Savannah, Ga.	918 Lamond Ave., Durham, N. C.
Robert Gleve Neill <i>Bakersfield Jr. College; University of California.</i>	Bakersfield, Calif.	Duke Hospital.
Orland Maynard Newman <i>Catawba College.</i>	Salisbury, N. C.	Duke University, House C.
Olin Charles Perryman, Jr. <i>University of North Carolina.</i>	Winston-Salem, N. C.	1004 Urban Ave., Durham, N. C.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Arnold Zachary Pfeffer.....	New York City.....	2122 Myrtle Drive, Durham, N. C.
<i>City College of New York; University of Maryland.</i>		
Kenneth Arther Podger.....	Kenmore, N. Y.....	Duke Hospital. Duke University.
Millard Pinson Quillian.....	Bradenton, Fla.....	Duke Hospital. University of Florida; Western State Teachers College.
William Joseph Riley.....	Orange, N. J.....	Duke University, House B. Rutgers University.
Mila Elisabeth Rindge.....	Madison, Conn.....	203 Faculty Apartments. Connecticut College for Women.
Eric Dutton Savage.....	New York City.....	601 S. Duke St., Durham, N. C. Harvard University.
John Green Scott, Jr.....	Tamaqua, Pa.....	Duke University, House C. Duke University; S. S., University of Pittsburgh.
William Harrison Sellers.....	Anniston, Ala.....	1013 Monmouth Ave., Durham, N. C. Alabama Polytechnic Institute; Duke University.
Gardner Ford Smart.....	Troy, Ala.....	Duke Hospital. Duke University.
Paul Delaine Snedegar.....	Elkins, West Va.....	Duke University, House B. Davis and Elkins College; S. S., University of Michigan.
David Rodney Stack, Jr.....	Charleston, S. C.....	Duke Hospital. Wofford College.
Charles Clarence Stauffer.....	Washington, D. C.....	Duke University, House C. Duke University.
Gordon Conover Stenhouse.....	Mt. Vernon, N. Y.....	Duke University, House B. New York University; University of North Carolina.
Richard McCulloch Taliaferro...	Columbia, S. C.....	Duke Hospital. Duke University.
William Gilmore Thompson.....	Portland, Me.....	814 E. Forest Hills Blvd., Durham, N. C. Duke University.
George Tudor Thornhill, Jr.....	Bluefield, W. Va.....	1013 Monmouth Ave., Durham, N. C. Duke University.
Raymond Perle Thornhill.....	Kellogg, Idaho.....	1000 Lamond Ave., Durham, N. C. University of Idaho.
Lloyd Flintom Timberlake.....	Columbia, S. C.....	1013 Monmouth Ave., Durham, N. C. Duke University; S. S., University of South Carolina.
James McKnight Timmons.....	Columbia, S. C.....	Duke Hospital. Duke University; University of South Carolina.
Philip Cocke Trout.....	Roanoke, Va.....	Duke University, House A. University of Virginia.
Henry Lewis Valk.....	Winston-Salem, N. C.....	108 Buchanan Road, Durham, N. C. University of North Carolina; University of Pennsylvania.
Don James Weekes.....	Fresno, Calif.....	1025 Monmouth Ave., Durham, N. C. Fresno State Teachers College; Stanford University.
Walter LeRoy Widmark.....	Verona, N. J.....	Duke Hospital. Duke University.
Thomas Wilfred Wills.....	San Diego, Calif.....	Duke Hospital Harvard University; Stanford University.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Prentiss Willson, Jr.....	Washington, D. C.....	Duke University, <i>George Washington University;</i> <i>Pennsylvania State College.</i>
George Ashby Winstead.....	Rocky Mount, N. C.....	Duke University, <i>Wake Forest College.</i>

## SECOND-YEAR STUDENTS

Norman LaRue Anderson.....	Durham, N. C.....	Duke Hospital. <i>Duke University.</i>
Frederick Henry Andrus.....	Durham, N. C.....	Duke University, <i>Akron University;</i> <i>Duke University.</i>
Waldo Otis Badgley.....	East Lansing, Mich.....	1005 N. Duke St., <i>General Motors Institute of Technology;</i> <i>Michigan State College.</i>
Fred Nelson Baeder.....	Nutley, N. J.....	Duke Hospital. <i>Duke University.</i>
Oliver Jerome Bateman, Jr.....	Byron, Ga.....	Duke University, <i>Duke University.</i>
William Hegley Bonser.....	Toledo, Ohio.....	819 Third St., <i>Yale University.</i>
Ivan Willard Brown, Jr.....	Newfane, N. Y.....	Duke Hospital. <i>University of Rochester.</i>
R. Brown.....	Beatrice, Neb.....	905 Second St., <i>Rollins College.</i>
William Keefer Brumbach.....	Belleville, N. J.....	Duke University, <i>Duke University.</i>
Robert vanLiew Campbell.....	Hagerstown, Md.....	1000 Lamond Ave., <i>University of Maryland.</i>
Sizer Chambliss.....	Chattanooga, Tenn.....	Duke University, <i>University of Chattanooga;</i> <i>Duke University.</i>
Cecil Curtis Collins, Jr.....	Jacksonville, Fla.....	Duke University, <i>Marion Institute;</i> <i>Duke University.</i>
Victor Conforti.....	Torrington, Conn.....	116 Buchanan Road, <i>Connecticut State College.</i>
Harry Stough Etter.....	Shippensburg, Pa...307	Erwin Apartments, <i>Duke University.</i>
Richard Webster Finner.....	Tallahassee, Fla.....	Duke University, <i>University of Florida.</i>
William Henry Fisher, Jr.....	Centreville, Md.....	Duke University, <i>Duke University.</i>
Joseph B. Ford, Jr.....	Savannah, Ga.....	Duke University, <i>Duke University.</i>
William Henry Fulmer.....	Savannah, Ga.....	208 Buchanan Road, <i>Duke University.</i>
Julius Joyce Gibbons, Jr.....	Wilson, N. C.....	Duke University, <i>Duke University.</i>
Stephen Arnold Ginn.....	Royston, Ga.....	1200 College Road, <i>Duke University.</i>
David Watson Goddard.....	Portsmouth, Ohio.....	905 Second St., <i>Duke University.</i>
Risley Frith Haines.....	Bayamo, Cuba.....	Duke University, <i>Duke University.</i>
Willis Wilbur Harris.....	Bee Ridge, Fla.....	Duke University, <i>University of Florida.</i>

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Leroy Day Harshman.....	Fredericktown, Pa.....	1007 Glendale Ave., Durham, N. C.
<i>Waynesburg College.</i>		
William Carter Hawkins.....	West Asheville, N. C.....	Duke University, House A.
<i>Mars Hill College;</i>		
<i>Duke University.</i>		
Joseph Spurgeon Hiatt, Jr.....	Lenoir, N. C.....	Duke University, House A.
<i>Lenoir Rhyne College;</i>		
<i>Duke University.</i>		
Rolf Elmo Johnson.....	Harrisburg, Pa.....	116 Buchanan Road, Durham, N. C.
<i>Duke University.</i>		
James Woodruff Kelley.....	Wilmington, Del.....	1000 Lamond Ave., Durham, N. C.
<i>University of Delaware.</i>		
George Harold Kostant.....	Brooklyn, N. Y.....	Duke University, House A.
<i>Johns Hopkins University.</i>		
Harold Hunter Kuhn.....	Charleston, W. Va.....	Duke University, House A.
<i>Duke University.</i>		
Stanley Joseph Lourdeaux.....	San Francisco, Calif.....	Duke Hospital.
<i>Santa Clara University;</i>		
<i>Menlo Junior College;</i>		
<i>Stanford University.</i>		
Paul Franklin Maness.....	Yanceyville, N. C.....	Duke University, House Q.
<i>Wofford College;</i>		
<i>Duke University.</i>		
George Margolis.....	Montgomery, W. Va...1022 W. Trinity Ave., Durham, N. C.	
<i>Johns Hopkins University.</i>		
Lester Henry Margolis.....	Montgomery, W. Va...1022 W. Trinity Ave., Durham, N. C.	
<i>Johns Hopkins University.</i>		
Robert Plato Miller.....	Lincolnton, N. C.....	Duke University, House A.
<i>Duke University.</i>		
Wardell Hardee Mills.....	Greenville, N. C.....	Duke University, House B.
<i>East Carolina Teachers College;</i>		
<i>University of North Carolina.</i>		
John Edward Moss.....	Mobile, Ala.....	208 Buchanan Road, Durham, N. C.
<i>Duke University.</i>		
Douglas, Steffian Nisbet.....	Philadelphia, Pa.....	Duke University, Epworth.
<i>University of Pennsylvania;</i>		
<i>Duke University.</i>		
Robert Read Nixon.....	San Antonio, Texas.....	Duke University, House A.
<i>University of Texas;</i>		
<i>St. Mary's University of San Antonio.</i>		
Joseph Freeman Paquet.....	Portland, Oregon.....	Duke University, House A.
<i>University of Oregon;</i>		
<i>University of Idaho;</i>		
<i>Duke University.</i>		
Pierre Patillo Poole.....	Cross Anchor, S. C.....	Duke Hospital.
<i>John B. Stetson University.</i>		
Rufus Winston Roberts.....	Birmingham, Ala.....	Duke University, House C.
<i>Duke University.</i>		
Ralph Wayne Rundles.....	Hudson, Ind.....	2109 Chapel Hill St., Durham, N. C.
<i>De Pauw University;</i>		
<i>Cornell University Graduate School.</i>		
Robert Thornton Rutherford, Jr..	Charlotte, N. C.....	Duke University, House C.
<i>Duke University.</i>		
David Najeeb Saleeby.....	Monroe, N. C.....	Duke University, House C.
<i>Wingate Junior College;</i>		
<i>Duke University.</i>		
Clarence Joseph Sapp.....	Albany, Ga.....	Duke University, House V.
<i>Duke University</i>		

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Richard Allen Shields, Jr..... <i>Duke University.</i>	Lewes, Del.....	Duke University, House C.
Patti Marie Sills..... <i>Duke University.</i>	Nashville, N. C.....	116 Buchanan Road, Durham, N. C.
Paul Ervin Simpson..... <i>Muhlenberg College; Duke University.</i>	Ridgewood, N. J.....	Duke Hospital.
George Arthur Sotirion..... <i>Johns Hopkins University.</i>	Chicopee, Mass.....	Duke University, House A.
Ross Clarence Speir, Jr..... <i>Duke University.</i>	Birmingham, Ala.....	Duke University, House C.
Howard Paul Steiger..... <i>Bucknell University; Duke University.</i>	Williamsport, Pa.....	Duke University, House B.
Harvey Grant Taylor..... <i>San Jose State College; Stanford University.</i>	Los Gatos, Calif.....	Duke Hospital.
James Lyman Tullis..... <i>Rollins College.</i>	Cleveland, Ohio.....	1017 Demerius St., Durham, N. C.
James Arthur Tupper..... <i>University of Washington.</i>	Seattle, Wash.....	Duke Hospital.
William Lucas Venning, Jr..... <i>Duke University; Harvard.</i>	Greensboro, N. C.....	Duke University, House B.
Robert Eugene Walsh..... <i>Duke University.</i>	Elmira, N. Y.....	Duke University, House CC.
Jack Hamill Welch..... <i>Ohio State University.</i>	Columbus, Ohio.....	1013 Monmouth Ave., Durham, N. C.
Ethel Adele Weyant..... <i>Adelphi College; Duke University.</i>	Long Island, N. Y.....	1006 Minerva Ave., Durham, N. C.
Richard Bidgood Whitaker, Jr.... <i>Duke University.</i>	Whiteville, N. C.....	Duke University, House A.
Robert Macon Whitley, Jr..... <i>Louisburg College; Duke University.</i>	Stantonsburg, N. C.....	Duke University, House A.
Robert Cary Wood..... <i>Duke University.</i>	Lewisburg, W. Va.....	812 Anderson St., Durham, N. C.
William Egleston Woodruff..... <i>Duke University.</i>	Winston-Salem, N. C....	1021 Markham Ave., Durham, N. C.

## JUNIOR-SENIOR STUDENTS

Felix M. Adams, Jr..... <i>Oklahoma A. and M. College.</i>	Vinita, Okla.....	Duke Hospital, Durham, N. C.
Robert Leonhardt Alter (9/4/37)*..... <i>Dartmouth College; Toledo University; Ohio State University.</i>	Toledo, Ohio..	The Johns Hopkins Hospital, Baltimore, Md.
George James Baer (9/4/37).... <i>Duke University.</i>	Harrisburg, Pa.....	Henry Ford Hospital, Detroit, Mich.
Elizabeth Mary Balas (6/6/38)... <i>University of Pittsburgh.</i>	McKeesport, Pa.....	1010 Lamond Ave., Durham, N. C.

\* The date in parentheses after a name indicates the time of completion of the medical course.



<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Sherwood W. Barefoot (3/19/38)..... <i>University of North Carolina; medical student, ibid., 1934-1936.</i>	Benson, N. C.....	1005 N. Duke St., Durham, N. C.
Courtland Dixon Berry (6/6/38)..... <i>Wesleyan University.</i>	Rahway, N. J.....	Duke Hospital, Durham, N. C.
Robert Martin Biddle..... <i>Northwestern University; Duke University.</i>	Parkersburg, West Va....	1006 Dacian Ave., Durham, N. C.
John Riley Black, Jr. (6/6/38)..... <i>Duke University.</i>	Bamberg, S. C.....	1200 Markham Ave., Durham, N. C.
George McClintock Bogardus (6/6/38)..... <i>University of Washington.</i>	Kalispell, Mont..	1601 Duke University Road, Durham, N. C.
John Walter Brandt (6/6/38).... <i>George Washington University; Pennsylvania State College.</i>	Crafton, Pittsburgh, Pa. 1601 Duke University Road,	Durham, N. C.
Walter Earl Brown (9/3/38).... <i>University of North Carolina; medical student, ibid., 1934-1936.</i>	Wilson, N. C.....	2541 Chapel Hill St., Durham, N. C.
Charles Pardue Bunch (12/17/38)..... <i>Duke University.</i>	Statesville, N. C.....	818 Sixth St., Durham, N. C.
Margaret Virginia Burns (9/4/37)..... <i>Duke University.</i>	Asheville, N. C.....	Duke Hospital.
James Merryman Burk (12/17/38)..... <i>University of Indiana.</i>	Decatur, Ind.....	208 Buchanan Road, Durham, N. C.
C. Willard Camalier, Jr. (6/6/38)..... <i>George Washington University.</i>	Washington, D. C.....	500 Watts St., Durham, N. C.
Gordon Gayton Carmichael..... <i>Rose Polytechnic; Indiana State University.</i>	Terre Haute, Ind.....	112 Buchanan Road, Durham, N. C.
Richard Rutledge Carter (6/6/38)..... <i>University of Oregon.</i>	Portland, Oregon.....	Duke Hospital.
David Cayer (12/17/38)..... <i>Duke University.</i>	Beachwood, N. J.....	Duke Hospital.
James Madison Covington, Jr. (6/6/38)..... <i>Davidson College.</i>	Wadesboro, N. C.....	Duke Hospital.
John Hulon Cox (9/3/38)..... <i>University of North Carolina; medical student, ibid., 1934-1936.</i>	Winston-Salem, N. C.....	Duke Hospital.
Frank Harold Crosby..... <i>University of Illinois.</i>	Lockport, N. Y.....	Duke University, House A.
Almon Rufus Cross (6/6/38).... <i>University of New Hampshire.</i>	Colebrook, N. H.....	Duke Hospital.

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
James Hawley Currens (6/6/38)..... <i>Western Illinois State Teachers College; University of Michigan.</i>	Macomb, Ill.....	Duke University, House A.
John Munroe Douglas..... <i>Davidson College.</i>	Davidson, N. C.....	402 Watts St., Durham, N. C.
Jere Robert Downing..... <i>Duke University; University of New Hampshire.</i>	Kennebunk, Maine.....	Aycock Apartments, Durham, N. C.
Charles Ross Duncan (9/4/37).... <i>Wake Forest College; medical student, ibid., 1931-1933.</i>	Clayton, N. C.....	Rex Hospital, Raleigh, N. C.
Ernest Brindley Dunlap, Jr..... <i>Duke University.</i>	Lawton, Okla.....	1006 Dacian Ave., Durham, N. C.
Archie Yelverton Eagles..... <i>Duke University.</i>	Wilson, N. C.....	Duke Hospital.
William Fox Eckbert..... <i>University of Delaware.</i>	Hanover, Pa.....	Duke Hospital.
Arnold Lewis Field (12/17/38).... <i>Johns Hopkins University.</i>	Schnectady, N. Y.....	Duke Hospital.
David Hudson Fogel (6/6/38).... <i>New York University; University of Virginia.</i>	Brooklyn, N. Y.....	808 Third St., Durham, N. C.
Atticus James Gill (6/6/38)..... <i>Duke University.</i>	Dallas, Texas.....	905 Second St., Durham, N. C.
Dan Cummins Gill (6/6/38)..... <i>Virginia Military Institute; Oklahoma University.</i>	Okmulgee, Okla.....	Duke Hospital.
William Reid Haas (3/19/38).... <i>University of Minnesota; Carleton College; University of Wisconsin.</i>	Minneapolis, Minn.....	Duke Hospital.
Collins Fremont Hall (6/6/38).... <i>Gettysburg College.</i>	Williamsport, Pa.....	Duke Hospital.
Walter Darlington Hastings, Jr. (6/6/38)..... <i>Duke University.</i>	Columbia, Tenn.....	1013 Monmouth Ave., Durham, N. C.
William Victor Haymond (12/17/38)..... <i>University of Utah.</i>	Garfield, Utah.....	Duke Hospital.
Harry Stuart Hickman (6/6/38)..... <i>Duke University.</i>	Hudson, N. C.....	1013 N. Gregson St., Durham, N. C.
William Fredwin Hollister (6/6/38)..... <i>University of California.</i>	Santa Monica, Calif.....	Duke Hospital.
Joe McKinney Ivie (6/6/38)..... <i>Duke University.</i>	Leaksville, N. C.....	1013 Monmouth Ave., Durham, N. C.
Arthur Harvey Joistad (12/18/37)..... <i>University of Minnesota; University of North Dakota; medical student, latter, 1933-1935.</i>	Fargo, N. D.....	Strong Memorial Hospital, Rochester, N. Y.
William Henry Kaufman (9/4/37)..... <i>Johns Hopkins University.</i>	Timonium, Md.....	Duke Hospital.

\* The date in parentheses after a name indicates the time of completion of the medical course.



<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Harold Barker Kernodle.....	Elon College, N. C.....	Duke University, House A.
Robert Dumais Kornegay.....	Rocky Mount, N. C.....	Duke Hospital. <i>Davidson College.</i>
Charles Larsen, Jr. (12/17/38)....	Lakeland, Fla.....	Duke Hospital. <i>University of Florida.</i>
Charles Wells Latchem (12/17/38).....	Washington, Iowa.....	402 Watts St., Durham, N. C. <i>St. Ambrose College; Duke University.</i>
Jerome Lawrence (12/17/38).....	New York, N. Y.....	Duke University, House B. <i>New York University.</i>
Lyndon Edmund Lee, Jr. (12/18/37).....	Mount Vernon, N. Y. <i>University of Virginia; Columbia University.</i>	Blue Ridge Sanatorium and University Hospital, Charlottesville, Va.
Joseph Michael Lesko (12/18/37).	Bridgeport, Conn.....	McLean Hospital, Boston, Mass. <i>University of Michigan.</i>
Thomas Norwood Lide (3/19/38)	Anderson, S. C.....	1013 Monmouth Ave., Durham, N. C. <i>Clemson College.</i>
Robert Carl Lincicome (12/17/38).....	Marietta, Ohio.....	Duke Hospital. <i>Marietta College.</i>
Paul Warren Lucas.....	Durham, N. C.....	100 Club Blvd., Durham, N. C. <i>Duke University.</i>
William Alexander MacColl (3/19/38).....	Northampton, Mass.....	2110 Wilson St., Durham, N. C. <i>Amherst College; Massachusetts State Graduate School.</i>
Theodore Roosevelt Mattocks (12/17/38).....	Maysville, N. C.....	Duke University, House P. <i>Duke University.</i>
William Jefferson McAnally, Jr. (12/17/38).....	High Point, N. C.....	2003 Club Blvd., Durham, N. C. <i>Duke University.</i>
Joseph Pickett McCracken (9/4/37).....	Durham, N. C.....	Baltimore City Hospitals, Baltimore, Md. <i>Duke University.</i>
Harold Ellis Merkle (12/17/38).....	Salt Lake City, Utah.....	809 Second St., Durham, N. C. <i>Brigham Young University.</i>
Francis Poynter Meyer, Jr.....	St. Petersburg, Fla.....	818 Third St., Durham, N. C. <i>St. Petersburg Junior College; Duke University.</i>
Oscar Peyton Moffitt, Jr. (12/17/38).....	High Point, N. C.....	Duke Hospital. <i>Duke University.</i>
Rufus Clegg Morrow, Jr. (12/17/38).....	Zitacuaro, Michoacan, Mexico <i>Davidson College.</i>	Duke Hospital.
Henry George Morton (12/18/37).....	Sarasota, Fla.....	Duke Hospital. <i>Duke University.</i>

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Lyle Alfred Moser..... <i>Muhlenberg College; Lebanon Valley College.</i>	Muir, Pa.....	Duke University, House B.
Colin Alexander Munroe..... <i>Davidson College.</i>	Charlotte, N. C.....	Duke University, House B.
Henry Ten Eycke Munson..... <i>Wayne University; Duke University.</i>	Detroit, Mich.....	1026 Trinity Ave., Durham, N. C.
Brodie Crump Nalle, Jr..... <i>University of North Carolina.</i>	Charlotte, N. C.....	Duke University, House C.
Glenn Carraway Newman..... <i>Duke University; Wake Forest College.</i>	Clinton, N. C.....	Duke University, House C.
Robert H. Nickau..... <i>North Carolina State College.</i>	Rahway, N. J.....	Duke Hospital.
Pat Ireland Nixon, Jr..... <i>University of Texas.</i>	San Antonio, Texas.....	Duke University, House A.
Gilbert Matthewson Palen..... <i>Hamilton College.</i>	Woodbury, N. J.....	208 Buchanan Road, Durham, N. C.
Albert Archer Parrish (12/17/38)..... <i>Duke University.</i>	Tabor City, N. C.....	Duke Hospital.
James McGuire Peery (6/6/38)... <i>William and Mary College.</i>	North Tazewell, Va...	1013 Monmouth Ave., Durham, N. C.
R. Mel Perry (6/6/38)..... <i>University of Washington.</i>	Pasco, Wash.....	Duke University, House B.
William Flynn Powell (12/18/37)..... <i>Princeton University.</i>	Asheville, N. C.....	N. C. State Sanatorium, Pinehurst, N. C.
Lawrence Augustus Pyle, Jr..... <i>University of Maryland; George Washington University.</i>	Washington, D. C.....	Duke Hospital.
James Sidney Raper (9/3/38)... <i>Duke University.</i>	Lexington, N. C.....	Duke Hospital.
Ira Stanley Ross (6/6/38)..... <i>Duke University.</i>	Newark, N. J.....	808 Third St., Durham, N. C.
Weldon Troh Ross (6/6/38)..... <i>University of Oregon.</i>	McMinnville, Oregon.....	Duke Hospital.
William J. Rysanek, Jr..... <i>Johns Hopkins University.</i>	Baltimore, Md.....	Erwin Apartments.
James Wilbur Sachs (6/6/38)... <i>Duke University.</i>	Hancock, Md.....	Duke Hospital.
Logan Everett Sawyer..... <i>Duke University.</i>	South Mills, N. C.....	Duke Hospital.
Paul Welstead Schanher, Jr. (12/17/38)..... <i>Duke University.</i>	Mt. Clemens, Mich.....	Duke University, House A.
Thomas Gilbert Schnoor (12/17/38)..... <i>University of California; University of Nevada.</i>	Berkeley, Calif.....	Erwin Apartments.
George Addison Silver, III (9/4/37)..... <i>Guilford College.</i>	Camden, N. J.....	Duke Hospital.

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Robert Cathcart Smith..... <i>The Citadel.</i>	Mullins, S. C.....	208 Buchanan Road, Durham, N. C.
Sidney Stark..... <i>New York University.</i>	Brooklyn, N. Y.....	Duke University, House B.
Wray Donald Storey (12/17/38).. <i>Geneva College.</i>	Scottsdale, Pa.....	Duke Hospital.
George Merritt Stroud, III (3/19/38)..... <i>Duke University.</i>	Chester, Pa.....	Duke University, House B.
Charles Woodrow Styron (6/6/38)..... <i>North Carolina State College.</i>	New Bern, N. C.....	Duke Hospital.
Doris Lee Surlles..... <i>Duke University.</i>	Dunn, N. C.....	116 Buchanan Road, Durham, N. C.
Joseph Dimmick Thetford (12/17/38)..... <i>Tulane University; University of Alabama.</i>	Montgomery, Ala.....	Duke Hospital.
Edwin Hale Thornhill (3/19/38)..... <i>Duke University.</i>	Bluefield, W. Va....	1013 Monmouth Ave., Durham, N. C.
John Redden Timmons..... <i>University of South Carolina; Duke University.</i>	Columbia, S. C.....	Duke Hospital.
William Trachtenberg (12/17/38)..... <i>University of North Carolina; Harvard College.</i>	Winston-Salem, N. C....	Duke University, House C.
Eulys Robert Troxler (6/6/38).. <i>Duke University.</i>	Greensboro, N. C.....	Duke University, House A.
Larry Turner..... <i>Duke University.</i>	Rocky Mount, N. C.....	Duke University, House B.
Joe Milton VanHoy (6/6/38)... <i>Duke University.</i>	Charlotte, N. C.....	Duke University, House A.
Philip Holt Varner (6/6/38).... <i>West Virginia University; medical student, ibid., 1934-1936.</i>	Morgantown, W. Va.....	1021 Hale St., Durham, N. C.
Norman Clemm Veale (12/18/37)..... <i>University of California.</i>	San Diego, Calif.....	Baker Sanatorium, Lumberton, N. C.
Joseph Allison Cannon Wadsworth, II..... <i>Davidson College.</i>	Durham, N. C.....	410 Buchanan Road, Durham, N. C.
Frederic Monroe Jacob Walp... <i>University of Pennsylvania; Muhlenberg College.</i>	Slatington, Pa.....	Duke University, House B.
George Archibald Watson, Jr.... <i>Lehigh University; New York University; Duke University.</i>	Cranford, N. J.....	c/o Dr. Shuler, University Drive, Durham, N. C.
Roderick Cameron Webb..... <i>St. Petersburg Junior College; Duke University.</i>	St. Petersburg, Fla.....	Duke University, House B.
Nelson Mortimer Webster (12/18/37)..... <i>University of Nevada.</i>	Hollywood, Calif...	Baltimore City Hospital, Baltimore, Md.

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Kenneth Durham Weeks.....	Rocky Mount, N. C.....	Duke Hospital. <i>Davidson College.</i>
Warner Lee Wells (6/6/38).....	Raleigh, N. C.....	Duke Hospital. <i>Duke University.</i>
Irving Bernard Wexler.....	New York City.....	Duke Hospital. <i>New York University.</i>
Charles Stanley Whitaker (6/6/38).....	Brooklyn, N. Y.....	1200 College Road, Durham, N. C. <i>Duke University; Columbia University.</i>
Reaves Augustus Wilson.....	Sarasota, Fla.....	Duke University, House C. <i>University of Florida.</i>
Frank Mahlon Woolsey, Jr. (6/6/38).....	Hancock N. Y.....	2200 University Drive, Durham, N. C. <i>Duke University.</i>
James Clay Wren.....	Siler City, N. C.....	Duke Hospital. <i>Rutherford College; Duke University; medical student, University of North Carolina, 1935-1937.</i>
Dorothy Bryan Wyvell (6/6/38).....	Washington, D. C.....	Faculty Apartments, Woman's College Campus, Durham, N. C. <i>Duke University.</i>

## STUDENTS BY CLASSES

	<i>First-Year</i>	<i>Second-Year</i>	<i>Junior-Senior</i>	<i>Total</i>
1930 .....	52	0	18	70
1931 .....	63	46	36	145
1932 .....	50	60	55	165
1933 .....	60	43	90	193
1934 .....	63	56	91	210
1935 .....	66	57	96	219
1936 .....	70	61	112	243
1937 .....	71	63	111	245

INSTITUTIONS AT WHICH THE MEDICAL STUDENTS RECEIVED  
PART OR ALL OF THEIR PREPARATION

Adelphi College .....	1	Catawba College .....	1
Akron University .....	1	Chattanooga, University of .....	1
Alabama Polytechnic Institute ....	1	Citadel, The .....	2
Alabama, University of .....	2	Clemson College .....	1
Amherst College .....	1	City College of New York .....	1
Antioch College .....	1	Columbia Military Academy .....	1
Atlantic Christian College .....	1	Columbia University .....	2
Barnard College .....	1	Connecticut College for Women ..	1
Bluefield College .....	1	Connecticut College of Pharmacy	1
Bridgewater College .....	1	Connecticut State College .....	1
Brigham Young University .....	1	Cornell University .....	1
Bucknell University .....	1	Dartmouth College .....	1
California State Teachers College	1	Davidson College .....	8
California, University of .....	3	Delaware, University of .....	2
California, University of, at Los Angeles .....	1	De Pauw University .....	1
Carleton College .....	1	Dickerson College .....	2
		Duke University .....	95

\* The date in parentheses after a name indicates the time of completion of the medical course.

East Carolina Teachers College ..	2	North Dakota, University of .....	1
Florida State College for Women	1	Northwestern University .....	1
Florida, University of .....	7	Ohio State University .....	1
Franklin and Marshall College ...	1	Oklahoma A. & M. College .....	1
Fresno State Teachers College ...	1	Oklahoma, University of .....	1
Geneva College .....	1	Oregon, University of .....	3
George Washington University ...	4	Pennsylvania State College .....	2
Georgia, University of .....	1	Pennsylvania, University of .....	3
Gettysburg College .....	3	Philippines, University of .....	1
Guilford College .....	2	Pittsburgh, University of .....	1
Hamilton College .....	1	Princeton University .....	1
Harvard University .....	6	Randolph Macon College .....	1
Haverford University .....	1	Rochester, University of .....	1
High Point College .....	1	Rollins College .....	2
Hood College .....	1	Rutgers College .....	3
Idaho, University of .....	1	Rutherford University .....	1
Illinois, University of .....	1	Saint Ambrose College .....	1
Indiana State Teachers College ..	1	Saint Marys, University of, at	
Indiana University .....	1	San Antonio .....	2
Iowa State, University of .....	1	Saint Petersburg Junior College ..	2
Iowa University .....	1	San Diego State College .....	1
John B. Stetson University .....	1	Santa Clara, University of .....	1
Johns Hopkins University .....	8	Santo Tomas, University of .....	1
Kemper Military School .....	1	South Carolina, University of ....	4
Keystone Teachers College .....	1	Stanford University .....	5
Lafayette College .....	1	Texas, University of .....	2
Lebanon Valley College .....	1	Toledo, University of .....	1
Lehigh University .....	1	Tulane University .....	3
Lenoir Rhyne College .....	1	Utah, University of .....	1
Louisburg College .....	1	Virginia Military Institute .....	1
Marietta College .....	1	Virginia, University of .....	6
Marion Institute .....	1	Wake Forest College .....	3
Marshall College .....	1	Washington Square College .....	1
Mars Hill College .....	1	Washington, University of .....	3
Maryland, University of .....	2	Wayne University .....	1
Massachusetts State College .....	1	Wesleyan University .....	1
Michigan State College .....	3	Western Illinois State Teachers	
Michigan, University of .....	5	College .....	1
Minnesota, University of .....	2	Western Reserve University .....	1
Muhlenberg College .....	3	Western State Teachers College ..	1
Muskingum College .....	1	West Virginia University .....	1
Nevada, University of .....	2	William and Mary College .....	1
New Hampshire, University of ...	3	Wisconsin, University of .....	1
New York University .....	4	Wofford College .....	2
North Carolina State College ....	4	Yale University .....	2
North Carolina, University of ...	16		

## STATES IN WHICH THE MEDICAL STUDENTS WERE BORN

Alabama .....	7	Maine .....	1
California .....	5	Maryland .....	7
Connecticut .....	5	Massachusetts .....	4
Delaware .....	1	Michigan .....	5
District of Columbia .....	6	Minnesota .....	2
Florida .....	9	Montana .....	2
Georgia .....	10	Nebraska .....	2
Illinois .....	4	New Hampshire .....	1
Indiana .....	2	New Jersey .....	17
Iowa .....	3	New York .....	19
Louisiana .....	1	North Carolina .....	54



North Dakota .....	1	Tennessee .....	2
Ohio .....	7	Texas .....	2
Oklahoma .....	7	Utah .....	2
Oregon .....	2	Vermont .....	1
Pennsylvania .....	19	Virginia .....	4
South Carolina .....	9	Washington .....	5
South Dakota .....	1	West Virginia .....	11

## Foreign Countries

Austria .....	1	Philippines .....	1
Cuba .....	1	Canada .....	1
Korea .....	1		

GRADUATES WHO ARE OBTAINING THE REQUIRED TWO YEARS  
OF HOSPITAL OR LABORATORY TRAINING\*

- Raymond DeLacy Adams, *Oregon*; M.D., Duke (12/19/36); *Int. and Ass't. Res. in Med.*, Duke Hospital, 1/1/37—
- Trogler Francis Adkins, *North Carolina*; M.D., Duke (12/19/36); *Int. in Surg. and in Obs. & Gyn.*, Duke Hospital, 1/1/37—
- Francis William Alter, Jr., *Yale*; M.D., Duke (6/7/37); *Voluntary Ass't. in Infectious Diseases*, St. Bartholomew's Hospital and National Hospital, London, England, 7/15-12/15/37; *Int. in Ped.*, Presbyterian Hospital, New York City, 1/1/38—
- Gordon Joseph Axelson, *Northwestern, Virginia*; M.D., Duke (3/20/37); *Int.*, City of Chicago Municipal Tuberculosis Sanatorium, 5/1-5/31/37; *Int., rotating*, Henry Ford Hospital, Detroit, 7/1/37—
- Maynard Backer Badanes, *Johns Hopkins*; M.D., Duke (9/5/36); *Int. in Ped.*, Duke Hospital, 9/6-12/31/36; *Int., rotating*, Sydenham Hospital, New York City, 1/1/37—
- George Jay Baylin, *Johns Hopkins*; M.D., Duke (3/20/37); *Ass't. in Anat.*, Duke Medical School, 4/1-6/30/37; *Int. in Surg.*, Sinai Hospital, Baltimore, 7/1/37—
- Bradford Bissell, *Cornell, North Carolina*; M.D., Duke (12/19/36); *Int. in Med. and Ass't. House Physician*, 1/1/37-12/31/37, and *Int. in Surg.*, The French Hospital, New York City, 4/1/38—
- Edgar Marx Braun, *Brown*; M.D., Duke (6/13/36); *Int. in Ped.*, Brooklyn Jewish Hospital, 7/1/36-6/30/37; *Int., rotating*, St. Elizabeth's Hospital, Newark, 7/1/37—
- William Henry Bridgers, *Duke*; M.D., *ibid.* (6/13/36); *Int. and Ass't. Res. in Surg.*, Duke Hospital, 7/1/36—
- Frank Woolridge Buckner, *Davidson*; M.D., Duke (6/13/36); *Int. in Surg.*, Duke Hospital, 7/1/36-2/28/37; *Int. in Surg. and in Ear, Nose & Throat*, New Haven Hospital, 3/1/37—
- Julius Caesar Burge, Jr., *Citadel*; M.D., Duke (6/7/37); *Int., rotating*, Watts Hospital, Durham, N. C., 7/1/37—
- Benjamin Brooks Burrill, Jr., *Dartmouth, Duke*; M.D., *latter* (6/13/36); *Int., rotating*, Mountainside Hospital, Montclair, N. J., 7/1/36-12/31/37; *Res.*, Essex County Isolation Hospital, Belleville, N. J., 1/1/38—
- Kenneth John Costich, *Holy Cross*; M.D., Duke (12/20/35); *Int., rotating*, New York Polyclinic Hospital, 1/1-4/3/36; *Int.*, Hugh Chatham Memorial Hospital, Elkin, N. C., 7/25/36-6/30/37; *Int., rotating*, Ellis Hospital, Schenectady, N. Y., 7/12/37—
- Harry Leonard Dein, *Duke*; M.D., *ibid.* (3/20/37); *Int. in Med.*, Duke Hospital, 3/21-6/30/37; *Int., rotating*, Atlantic City Hospital, 7/1/37—

\* The institutions at which each student received his premedical preparation are shown in italics. The date in parentheses after Duke indicates the time of the completion of the medical course.



- Leslie Van Dyke Dill, *Duke*; M.D., *ibid.* (6/13/36); *Int. in Med.*, Vanderbilt University Hospital, 7/1/36-6/30/37; *Jr. Ass't. in Path.*, Duke Hospital, 7/1/37—
- William Franklin Drummond, *Alabama*; med. stud., *ibid.*, 1933-35; M.D., Duke (3/20/37); *Int.*, North Louisiana Sanitarium, Shreveport, 4/1-6/30/37; *Int.*, *Pub. Health Serv.*, U. S. Marine Hospital, New Orleans, 7/1/37—
- John Watson Edwards, *New Mexico Military Institute, Duke*; M.D., latter (6/13/36); *Int. in Med.*, Church Home & Infirmary, Baltimore, 7/1/36-6/30/37; *Int. in Ped.*, University of California Hospital, San Francisco, 9/1/37—
- Max Wolff Fischbach, *Catawba*; M.D., Duke (6/13/36); *Int.*, rotating, Philadelphia Jewish Hospital, 6/15/36—
- Robert Carson Fugate, *Washington & Lee, Emory & Henry, Duke*; M.D., Duke (3/20/37); *Int. in Ped.*, Duke Hospital, 4/1-4/30/37; *Int.*, Manhattan Eye, Ear & Throat Hospital, New York City, 6/1-6/27/37; *Int.*, rotating, Harper Hospital, Detroit, 6/28/37—
- Harry-Rolf Germer, *Deutsche Aufbauschule*; med. stud., Jena, 1930-33; M.D., Duke (3/21/36); N. C. State Board of Health, Chapel Hill, N. C., 6/10-9/30/36; *Ass't. Health Officer*, County Health Department, Winston-Salem, N. C., 10/1/36-6/30/37; *Int.*, *Pub. Health Serv.*, U. S. Marine Hospital, Baltimore, 7/1/37—
- William Henry Glass, *Furman*; M.D., Duke (6/7/37); *Int.*, rotating, Sydenham Hospital, New York City, 7/1/37—
- Thomas Alphonse Gonder, Jr., *Maryland, West Virginia*; M.D., Duke (6/7/37); *Int. in Med.*, Johns Hopkins Hospital, 9/1/37—
- Aubrey Crafton Gose, *Lincoln Memorial, Emory & Henry*; M.D., Duke (6/7/37); *Int. in Path.*, Washington University Medical School, 7/1/37—
- Cyrus Leighton Gray, Jr., *High Point*; M.D., Duke (6/7/37); *Int. in Surg.*, Duke Hospital, 7/1/37—
- Charles Edgar Haines, Jr., *Rutgers, Duke*; M.D., latter (6/7/37); *Int. in Med.*, Baltimore City Hospitals, 7/1/37—
- George Thomas Harrell, Jr., *Duke*; M.D., *ibid.* (6/13/36); *Int. in Med.* and *Jr. Ass't. in Path.*, Duke Hospital, 7/1/36—
- H. Patterson Harris, Jr., *Yale*; M.D., Duke (3/21/36); *Int. in Surg. and Neuro-Surg.*, Massachusetts General Hospital, Boston, 4/15-12/31/36; *House Officer, rotating*, Faulkner Hospital, Boston, 7/1/37—
- Harold Ira Harvey, *Harvard*; M.D., Duke (6/7/37); *Int. in Med.*, Duke Hospital, 7/1/37—
- Alfred Faxon Henderson, *Joliet Junior, Duke*; M.D., latter (6/7/37); *Int.*, rotating, Central Dispensary & Emergency Hospital, Washington, D. C., 7/1/37—
- Marvin S. Herrington, *Duke*; M.D., *ibid.* (3/20/37); *Int.*, N. C. State Sanatorium, 3/22-6/15/37; *Int.*, rotating, Norfolk General Hospital, 7/1/37—
- Harry Myer Holtz, *Ohio State, Columbia, Duke*; M.D., Duke (6/8/35); *Int.*, rotating, Newark Beth Israel Hospital, Newark, N. J., 1/1/36-12/31/36; *Ass't. in Eye Clinic*, St. Michael's Hospital, Newark, 1/7/37—
- Harold Maclachlan Horack, *Duke*; M.D., *ibid.* (3/20/37); *Int. in Med.*, Peter Bent Brigham Hospital, Boston, 6/15/37—
- Newton Hornick, *Catawba*; M.D., Duke (6/7/37); *Int.*, rotating, Ambulance Serv., Long Island College Hospital, 7/1/37—
- Jeremiah Wolfe Kerner, *Georgia*; M.D., Duke (9/5/36); *Int.*, rotating and *Maternity Service*, Los Angeles County Hospital, 10/1/36—
- Thomas DeArman Kinney, *Pennsylvania*; M.D., Duke (9/5/36); *Int. in Med. and in Urol.*, Johns Hopkins Hospital, 9/6/36—
- Frederick Robert Klenner, *St. Vincent, St. Francis, Catholic*; M.D., Duke (3/21/36); *Int.*, Goldsboro City Hospital, Goldsboro, 4/1-8/31/36; Moore County Hospital, Inc., Pinehurst, 9/1/36-6/30/37, and N. C. State Sanatorium, Sanatorium, N. C., 10/1/37—

\* See footnote, p. 58.

- Albert Francis Lee, *Washington, Puget Sound*; M.D., Duke (6/7/37); *Int., Pub. Health Serv.*, U. S. Marine Hospital, Baltimore, 7/1/37—
- William Arthur Leff, *Franklin & Marshall*; M.D., Duke (12/19/36); *Int., rotating*, Essex County Hospital for Contagious Diseases, Belleville, N. J., 1/1-3/31/37; and Newark City Hospital, 4/1/37—
- Durward Lee Lovell, *Birmingham-Southern, Alabama*; med. stud., latter, 1929-31; M.D., Duke (12/19/36); *Int. in Surg.*, Duke Hospital, 1/1/37—
- Anthony Ralph Marsicano, *Long Island*; M.D., Duke (3/20/37); *Int. in Surg.*, McGuire Clinic, Richmond, Va., 3/21-6/20/37; *Int., rotating*, Bushwick Hospital, Brooklyn, N. Y., 7/1/37—
- David William Martin, *Duke*; M.D., *ibid.* (6/7/37); *Int. in Med.*, Baltimore City Hospitals, 7/1/37—
- James Risto Martin, *Vanderbilt, Alabama*; med. stud., latter, 1933-35; M.D., Duke (3/20/37); *Int. in Surg.*, Baltimore City Hospitals, 3/21-6/30/37; *Int., rotating*, University Hospitals, St. Louis University School of Medicine, 7/1/37—
- George Kemp Massengill, Jr., *Duke*; M.D., *ibid.* (6/13/36); *Int. in Surg.*, Henry Ford Hospital, Detroit, 7/1/36—
- Hugh Alexander McAllister, *Davidson, North Carolina*; med. stud., latter, 1933-35; M.D., Duke (6/7/37); *Int., rotating*, Central Dispensary & Emergency Hospital, Washington, D. C., 7/1/37—
- Philip Joseph McNamara, *Holy Cross, Georgetown*; spec. med. stud., latter, 1927-31; and S. S., Harvard, 1929; M.D., Duke (9/5/36); *Int., rotating*, Georgetown University Hospital, 9/6/36-8/31/37, and U. S. Naval Hospital, Washington, D. C., 9/1/37—
- Elijah Eugene Menefee, Jr., *Virginia*; M.D., Duke (6/13/36); *Int.*, New York State Sanatorium, Ray Brook, N. Y., 7/1-8/31/36; *Int. in Med.*, Duke Hospital, 9/1/36-6/30/37; *Research Fellow in Med. and Bact.*, Duke Medical School, 7/1/37—
- Frank Richardson Moore, *Duke*; M.D., *ibid.* (6/7/37); *Int.*, Woman's Hospital, Baltimore, 7/1/37—
- Arch Sherrod Morrow, *Davidson*; M.D., Duke (12/19/36); *Int., rotating*, Church Home and Infirmary, Baltimore, 12/28/36-6/30/37, and Presbyterian Hospital, Chicago, 7/1/37—
- Vince Moseley, *Clemson, Duke*; M.D., latter (12/19/36); *Int.*, N. C. State Sanatorium, Sanatorium, N. C., 1/1-4/15/37, and Sydenham Hospital, Baltimore, 5/1-6/30/37; *Int. in Med.*, Duke Hospital, 7/1/37—
- Philip Naumoff, *Pittsburgh*; M.D., Duke (6/7/37); *Int., rotating*, University of Pittsburgh Hospital, 7/1/37—
- Walter Relfe Newbern, *Duke*; M.D., *ibid.* (6/7/37); *Int. in Med.*, Vanderbilt University Hospital, 7/1/37—
- Richard Elwood Nitschke, *Duke*; M.D., *ibid.* (6/7/37); *Int. in Med.*, United Hospital, Port Chester, N. Y., 7/1/37—
- Carlton Lee Ould, *Roanoke, Duke*; M.D., latter (3/20/37); *Int. in Med.*, Duke Hospital, 3/21/37—
- Philip Brower Parsons, *Duke*; M.D., *ibid.* (3/21/36); *Int. in Surg. and Jr. Asst. in Path.*, Duke Hospital, 7/1/36—
- Archibald Hanes Pate, *Duke*; M.D., *ibid.* (6/7/37); *Int. in Surg.*, Henry Ford Hospital, Detroit, 7/1/37—
- William Phillips, *Ohio State*; M.D., Duke (9/5/36); *Int., rotating*, Harper Hospital, 9/20/36-9/19/37, and *Jr. Res. in Path.*, Detroit Receiving Hospital, Detroit, 10/18/37—
- Michael Theodore Pishko, *Pittsburgh*; M.D., Duke (6/13/36); *Int., rotating*, Pittsburgh Hospital, 7/1/36-6/30/37; *Int.*, Moore County Hospital, Pinehurst, N. C., 7/1/37—
- Raymond Woodrow Postlethwait, *West Virginia*; med. stud., *ibid.*, 1933-35; M.D., Duke (3/20/37); *Int.*, N. C. State Sanatorium, 4/1-6/30/37; *Int. in Med.*, Duke Hospital, 7/1/37—

\* See footnote, p. 58.

- Leo Bernard Provinsky, *Grove City*; M.D., Duke (12/19/36); *Int.*, City Hospital, Martinsburg, W. Va., 12/23/36-12/23/37; *Int. in Med.*, Duval County Hospital, Jacksonville, Fla., 1/1/38—
- Howard Lorenzo Reed, *Duke*; M.D., *ibid.* (9/5/36); *Int.*, N. C. State Sanatorium, 10/1-11/30/36; *Int. in Med.*, Roosevelt Hospital, New York City, 1/1/37—
- Edwin Tyson Ricketts, *Georgia School of Technology, Milsaps, Duke*; M.D., Duke (3/21/36); *Int.*, N. C. State Sanatorium, 3/22-5/12/36; *Int.*, rotating, Central Dispensary & Emergency Hospital, Washington, D. C., 7/1/36-6/30/37; *Int. in Med.*, Church Home & Infirmary, Baltimore, 7/1/37—
- Socrates Rumanos, *Alabama*; med. stud., *ibid.*, 1933-35; M.D., Duke (3/20/37); *Int. in Med.*, Baltimore City Hospitals, 3/25-6/25/37; *Int.*, rotating, University of Maryland Hospital, 7/1/37—
- William Schulze, *Tulane, Richmond*; M.D., Duke (6/13/36); *Int. and Ass't. Res. in Med.*, Duke Hospital, 7/1/36—
- William Osce Self, *Furman*; M.D., Duke (6/7/37); *Int. in Surg.*, Johns Hopkins Hospital, 9/1/37—
- James Edward Sheehy, *Notre Dame*; M.D., Duke (6/7/37); *Int.*, rotating, Hospital of St. Vincent de Paul, Norfolk, Va., 7/1/37—
- Burton Michael Shinnars, *Notre Dame*; M.D., Duke (9/5/36); *Int. in Med.*, Henry Ford Hospital, Detroit, 9/6/36-8/31/37; *Int. in Ped.*, Duke Hospital, 9/18-12/31/37; *Int. in Neuro-surg.*, Massachusetts General Hospital, Boston, 1/1/38—
- William Thornton Spence, *Lafayette, Wisconsin, Pennsylvania State, Alabama*; M.D., Duke (3/21/36); *Int.*, N. C. State Sanatorium, 4/1-6/1/36; *Int.*, rotating, Mercy Hospital, Pittsburgh, Pa., 7/1/36-6/30/37; *Ass't. Res. in Surg. and Path.*, Memorial Hospital, New York City, 7/1-12/15/37; *Ass't. Phys. and Surg.*, Western N. C. Sanatorium for the Treatment of Tuberculosis, Black Mountain, N. C., 12/16/37—
- William Charles Spring, Jr., *Wisconsin*; M.D., Duke (9/5/36); *Int. in Med.*, University Hospitals of Cleveland, 10/15/36—
- Charles Paul Stevick, *Duke*; M.D., *ibid.* (9/5/36); *Int. in Ped.*, Johns Hopkins Hospital, 9/6-12/31/36; Duke Hospital, 1/1-6/30/37, and Children's Hospital of Cleveland, 7/1/37—
- Murdo Eugene Street, Jr., *Duke, North Carolina*; med. stud., latter, 1933-35; M.D., Duke (3/20/37); *Int.*, Moore County Hospital, Inc., Pinehurst, N. C., 3/25-6/20/37; *Int.*, *Pub. Health Serv.*, U. S. Marine Hospital, Norfolk, Va., 7/1/37—
- Victor Leo Szanton, *Alabama*; M.D., Duke (6/13/36); *Int.*, rotating, Watts Hospital, Durham, N. C., 7/1/36-6/30/37; *Int. in Ped.*, Jewish Hospital, Brooklyn, N. Y., 7/1/37—
- Arthur Fred Turner, Jr., *Southern, Duke*; M.D., *ibid.* (6/13/36); *Int.*, rotating, Christ Hospital, Cincinnati, O., 7/1/36-6/30/37; *Int. in Surg.*, Medical College of Virginia, Hospital Division, Richmond, 7/1/37—
- George Irvin Uhde, *Duke*; M.D., *ibid.* (6/13/36); *Int.*, rotating, and *Res. in Med.*, Reading City Hospital, Reading, Pa., 7/1/36—
- Condit Brewer Van Arsdall, Jr., *Kentucky Wesleyan, University of Kentucky*; M.D., Duke (6/7/37); *Int.*, General Hospital, Saranac Lake, N. Y., 6/21/37—
- James Griffith Whildin, *Duke*; M.D., *ibid.* (6/7/37); *Int.*, rotating, Reading City Hospital, Reading, Pa., 7/1/37—
- Candler Arthur Willis, *Duke*; M.D., *ibid.* (6/13/36); *Int.*, rotating, Watts Hospital, Durham, N. C., 7/1/36-6/30/37; *Int.*, Hugh Chatham Memorial Hospital, Elkin, N. C., 7/1/37—
- James Stevenson Wilson, *Davidson*; M.D., Duke (3/20/37); *Int.*, rotating, Richmond Memorial Hospital, 3/20-6/30/37; *Int. in Surg.*, Henry Ford Hospital, Detroit, 7/1/37—

\* See footnote, p. 58.

Wesley Wellington Wilson, *Florida, Duke*; M.D., latter (3/20/37); *Int. in Med.*, Strong Memorial Hospital, Rochester, N. Y., 4/1-6/30/37; *Int. in Med. and Ass't. Res. in Derm. & Syphilol.*, University of Chicago Clinics, 7/1/37—

**GRADUATES WHO HAVE COMPLETED SATISFACTORILY TWO OR MORE YEARS OF HOSPITAL OR LABORATORY TRAINING\***

Gerald Lyon Ackerman, *Washington & Jefferson*; med. stud., West Va., 1929-31; M.D., Duke (3/22/33); *Int.*, *Ass't. Res. and Res. in Surg.*, Church Home & Infirmary, Baltimore, Md., 7/1/33-6/30/37; *present address (in practice)*, Saginaw, Mich.

Carlton Noble Adams, *Wake Forest*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int.*, *Ass't. Res. and Res. in Surg.*, Church Home & Infirmary, Baltimore, Md., 7/1/32-6/30/36; *present address (in practice)*, Winston-Salem, N. C.

Lacy Allen Andrews, Jr., *North Carolina*; med. stud. *ibid.*, 1928-30; M.D., Duke (6/11/32); *Int.*, Baltimore City Hospitals, 7/1/32-6/30/33, and Watts Hospital, Durham, N. C., 7/1/33-6/30/34; *present address (in practice)*, Durham, N. C.

Jay Morris Arena, *West Virginia*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int. in Ped.*, Strong Memorial Hospital, Rochester, N. Y., 3/22/32-6/30/32, and Johns Hopkins Hospital, 7/1/32-6/30/33; *Ass't. Res. and Res. in Ped.*, Duke Hospital, 7/1/33-6/30/35; *Instr. and Assoc. in Ped.*, Duke University School of Medicine, 7/1/35—

John Samuel Baker, *Southern California*; M.D., Duke (9/1/34); *Int. in Med.*, Duke Hospital, 9/1/34-8/31/35; *Res. in Med.*, San Diego Co. Hospital, San Diego, Cal., 1/1/36-6/30/36; *Res. of Clinics*, Riverside Co. Hospital, Riverside, Cal., 9/1/36—

Lenox Dial Baker, *Tennessee, North Carolina*; M.D., Duke (12/19/33); *Int. in Surg. and Ass't. Res. and Res. in Orth.*, Johns Hopkins Hospital, 1/1/34-8/31/37; *Instr. in Ortho.*, Duke University School of Medicine, 9/1/37—

John Valentine Blady, *Wisconsin*; med. stud., *ibid.*, 1926-27, 1928-29; M.D., Duke (3/19/32); *Int. in Surg.*, Duke Hospital, 7/1/32-6/30/33; *Ass't. Res., Res. and Instr. in Roent.*, Temple Univ. Hospital, Philadelphia, 7/1/33-12/31/35; *Int. in Roent. and Clin. Fellow*, Memorial Hospital, New York City, 1/1/36—

Berget Henri Blocksom, Jr., *Indiana, Michigan*; M.D., Duke (9/2/33); *Int. in Surg.*, Duke Hospital, 9/3/33-6/30/34; *Ass't. Res. and Res. in Urol.*, Univ. of Chicago Clinics, 7/1/34-6/30/37; *present address (in practice)*, Rockford, Ill.

Julius Boiarsky, *West Va., Ohio State*; med. stud., West Va., 1931-33; M.D., Duke (6/8/35); *Int.*, rotating, Deaconess Hospital, Cincinnati, O., 7/1/35-6/30/36; *Ass't. Res. in Orth. Surg.*, Charleston General Hospital, Charleston, W. Va., 7/1/36-6/30/37; *First Lieut., Med. Corps Reserve*, West Va. Military Area, 7/1/37—

Ned Ornell Bowman, *North Carolina*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int.*, Middlesex Gen'l. Hospital, Middlesex, N. J., 7/1/32-12/1/33; *Ass't. Res. and Res.*, Eastern Dispensary & Casualty Hospital, Washington, D. C., 1/1/34-6/30/34; *Instr. in Physiology and Ass't. School Physician*, Rutgers Univ., New Brunswick, N. J., 7/1/34-6/30/36; *present address (in practice)*, New Brunswick, N. J.

Oren Douglas Boyce, *North Carolina*; M.D., Duke (9/2/33); *Int.*, Jefferson Hospital, Roanoke, Va., 9/3/33-6/30/34; and in *Obs. & Gyn.*, Vanderbilt Univ. Hospital, 7/1/34-6/30/35; *present address (in practice)*, Rural Retreat, Va.

Earl Winfrey Brian, *Duke*; M.D., *ibid.* (9/1/34); *Int. in Med.*, Henry Ford Hospital, Detroit, 9/1/34-6/30/35; *Int. in Path.*, Duke Hospital, 7/1/35-6/30/36; *Ass't. Res. in Med. and Res. Physician*, Henry Ford Hospital, 7/10/36—

\* See footnote, p. 58.



- Ernest Bruce Brooks, *Duke*; M.D., *ibid.* (9/2/33); *Int.*, Union Memorial Hospital, Baltimore, 9/3/33-6/30/34; *Ass't. Res.*, Univ. of Maryland Hospital, Baltimore, 7/1/34-6/30/35; *Obs. Outside Service*, Charlotte, N. C., July and Aug., 1935; *Int.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., Sept. and Oct., 1935; *present address (in practice)*, 515 Reynolds Bldg., Winston-Salem, N. C.
- Arthur Raymond E. Buirge, *Drake, Duke*; M.D., *ibid.* (12/18/34); *Int. in Obs. & Gyn. and in Surg.*, 1/1/35-6/30/36, and *Ass't. and Res. in Surg.*, Univ. of Minnesota Hospitals, 7/1/36—
- John C. Burwell, Jr., *Duke, Harvard*; M.D., *Duke* (9/2/33); *Int.*, New York Postgraduate School & Hospital, New York City, 9/3/33-6/30/34; and *in Obs. & Gyn.*, New York Hospital, 9/1/34-6/30/35; and Bellevue Hospital, New York City, 7/1/35-6/30/36; *present address (in practice)*, Greensboro, N. C.
- Jasper Lamar Callaway, *Alabama*; med. stud., *ibid.*, 1929-31; M.D., *Duke* (12/21/32); *Fellow*, Univ. of Pennsylvania Hospital, Philadelphia, Pa., 1/1/33-6/30/33; *Int. and Ass't. Res. in Med.*, Duke Hospital, 7/1/33-1/23/35; *Instr. in Phys. Diag.*, Univ. of Alabama School of Medicine, 2/1/35-5/31/35; *Instr. in Derm. & Syphil.*, Univ. of Pennsylvania Hospital, 6/15/35-6/30/37; *Instr. in Med., Derm. & Syphil.*, Duke Hospital, 7/1/37—
- James Henderson Cherry, *Mars Hill*; M.D., *Duke* (12/19/33); *Int.*, Goldsboro City Hospital, Goldsboro, N. C., 1/1/34-6/30/34, and *in Surg.*, Duke Hospital, 7/1/34-6/30/35; *Fellow in Orth. Surg.*, Mayo Clinic, 7/1/35-7/14/37; *present address (in practice)*, Hot Springs, Va.
- Charles Francis Chunn, *Duke*; M.D., *ibid.* (12/20/35); *Int. in Surg.*, Duke Hospital, 1/1/36-4/30/37; *Ass't. Res. in Surg.*, Henry Ford Hospital, Detroit, 5/10/37—
- Milton Carpenter Cobey, *Amherst*; M.D., *Duke* (9/1/34); *Int. in Orth. and in Surg.*, and *Ass't. Res. in Orth.*, Johns Hopkins Hospital, 9/1/34—
- Charles Anthony Collins, *Columbia*; M.D., *Duke* (8/31/35); *Int. in Med.*, Henry Ford Hospital, Detroit, 9/1/35-8/31/37; *present address (in practice)*, White Plains, N. Y.
- Martin Edward Conti, *West Va.*; med. stud., *ibid.*, 1929-31; M.D., *Duke* (3/22/33); *Int. in Obs. & Gyn.*, Duke Hospital, 3/23/33-8/31/33; *rotating*, Watts Hospital, Durham, N. C., 9/1/33-8/31/34, and City Hospital, Mobile, Ala., 7/1/34-6/30/35; *present address (in practice)*, 303 Home Savings Loan Bldg., Youngstown, Ohio.
- Gabriel Hernando Cortes, *Michigan, Duke*; M.D., *ibid.* (12/20/35); *Int. in Med.*, New York Postgraduate Hospital, 1/1/36-12/31/37; *present address (in practice)*, Bogota, Colombia, S. A.
- Felix Hughes Crago, *West Va.*; med. stud., 1931-33; M.D., *Duke* (6/8/35); *Int.*, *rotating*, Ancker Hospital, St. Paul, Minn., 7/1/35-6/30/36; *Fellowship in Med.*, Univ. of Minnesota, 7/1/36—
- Charles Cramer, *Cooper Union, Columbia*; M.D., *Duke* (8/31/35); *Res. in Med.*, Vanderbilt University Hospital, 9/1/35-6/30/36; *Res. in Path.*, St. John's Hospital, Brooklyn, N. Y., 7/1/36-6/30/37; *Ass't. Res. in Med.*, Queen's General Hospital, New York City, 7/1/37—
- Maurie Bertram Cree, *Wake Forest*; M.D., *Duke* (12/18/34); *Int.*, *rotating*, Baptist Memorial Hospital, Memphis, Tenn., 1/10/35-6/30/36; *Gen'l. Res. and Res. in Surg.*, Greenville General Hospital, Greenville, S. C., 7/1/36-6/30/37; *in practice*, Newport News, Va., 7/1/38-6/30/39; *Res.*, Rex Hospital, Raleigh, N. C., 12/1/37—
- Bennie Booker Dalton, *North Carolina*; med. stud., *ibid.*, 1928-30; M.D., *Duke* (6/11/32); *Int.*, McKeesport Hospital, McKeesport, Pa., 7/1/32-7/31/32; Watts Hospital, Durham, N. C., 8/1/32-7/31/33, and Wassaic State School, Wassaic, N. Y., 10/10/33-10/10/34; *County Health Officer*, Rockingham, N. C., 1/1/35-10/31/36; *present address (in practice)*, Liberty, N. C.

\* See footnote, p. 58.

- William Howard Darden, *Alabama*; med. stud., *ibid.*, 1929-31; M.D., Duke (12/21/32); *Int. and Ass't. Res.*, Northwestern Hospital, Minneapolis, Minn., 1/1/33-12/31/34; (*in practice*), 214½ Vermillion St., Hastings, Minn., 7/1/35-12/15/35; *present address*, Emergency Hospital of the Tennessee Coal, Iron & Railroad Co., Ensley, Birmingham, Alabama.
- John Sinclair Denholm, *Pittsburgh*; M.D., Duke (11/30/35); *Int. in Med.*, Duke Hospital, 12/1/35-8/31/36; *Ass't. Phys.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., 7/1/36—
- Rudolph John Depner, *Rhode Island State, Missouri*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int.*, Kansas City Hospital, 7/1/32-6/30/33; *Ass't. Res. and Ass't. Sup't.*, Exeter School, Lafayette, R. I., 7/1/33-7/31/35; *Med. Int. and Ass't. Physician in Psychiatry*, Wassaic State School, 8/1/35—
- John William Devine, Jr., *Washington and Lee*; M.D., Duke (3/21/35); *Int. in Surg. and Ass't. Res. in Surg. and Path.*, Duke Hospital, 7/1/35—
- Benjamin George Dinin, *New York Univ., Alabama*; M.D., Duke (9/2/33); *Int. in Med.*, Duke Hospital, 9/3/33-8/31/34; *Ass't. Res.*, New York Hospital, New York City, 9/1/34-6/30/35; *Int. in Ped.*, Brooklyn Jewish Hospital, Brooklyn, N. Y., 7/1/35-6/30/36; *Res. in Communicable Diseases*, Kingston Ave. Hospital, Brooklyn, N. Y., 7/1/36—
- Grant Lester Donnelly, *Duke, Chicago*; med. stud., North Carolina, 1927-30; M.D., Duke (6/10/33); *Int. in Obs. & Gyn.*, Duke Hospital, 6/12/33-8/31/33; *Assoc. Prof. in Phar.*, Univ. of North Carolina, 9/1/33—
- Raymond John Duffy, *Pittsburg*; med. stud., West Va., 1929-31; M.D., Duke (6/10/33); *Int.*, Boston Psychopathic Hospital, 7/1/33-6/30/34; *Staff Member*, McLean Hospital, Waverley, Mass., 7/1/34-4/30/35; *Int.*, 5/1/35-12/31/36, and *Psychiatrist-in-Charge*, Carney Hospital, Boston, Mass., 5/1/35, and *in practice*, 482 Beacon St., Boston, Mass.
- Elbert Newton DuPuy, *West Virginia*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int.*, rotating, Church Home & Infirmary, Baltimore, Md., 7/1/32-6/30/33; *Ass't. Res. and Res. in Obs. & Gyn.*, University of Maryland Hospital, Baltimore, Md., 7/1/34-6/30/36; *in practice*, Buchanan Co., Va., 7/1/36-2/28/37; *Surgeon SS "City of Norfolk"*, 3/1/37-9/30/37; *present address (in practice)*, Beckley, W. Va.
- Eleanor Beamer Easley, *Idaho, Iowa, George Peabody, Vanderbilt*; M.D., Duke (3/21/34); *Int.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., 3/25/34-5/31/34; *Int. and Ass't. Res. in Med.*, and *Int. in Obs. & Gyn.*, Duke Hospital, 7/1/34—
- William Dempsey Farmer, *Duke*; M.D., *ibid.* (6/9/34); *Int. in Med.*, Baltimore City Hospitals, 7/1/34-6/30/35; *Int. in Surg.*, and *Int.*, *Ass't. Res. and Res. in Otolaryn.*, Duke Hospital, 7/1/35—
- Alvis Dare Finch, *Duke*; M.D., *ibid.* (6/8/35); *Int.*, rotating and *in Surg.*, Harper Hospital, Detroit, 6/28/35-6/14/37; *Ass't.*, Emergency Ward Staff, Detroit City Receiving Hospital, 6/15/37—
- John Dean Fitzgerald, *Duke*; M.D., *ibid.* (9/1/34); *Int.*, rotating and *in Surg.*, Watts Hospital, Durham, N. C., 9/1/34-6/30/36; *Ass't. in Gen'l.*, Rainey Hospital, Burlington, N. C., 7/1/36-6/30/37; *Associate*, Alamance General Hospital, Burlington, N. C., 7/1-12/31/37; *present address (in practice)*, Durham, N. C.
- John Stewart Forbes, Jr., *Duke*; M.D., *ibid.* (12/18/34); *Int.*, rotating, Jersey City Medical Center, 1/1/35-1/1/36; *Res. in Med.*, New Jersey State Hospital, 2/1/36—
- William Nicholas Fortescue, *Duke*; M.D., *ibid.* (6/9/34); *Int. and Ass't. Res. in Med.*, Long Island Hospital, Boston, Mass., 7/1/34-5/31/36; *present address (in practice)*, Hendersonville, N. C.
- Herbert Junius Fox, *North Carolina, Duke*; M.D., *ibid.* (8/31/35); *Int. and Ass't. Res. in Med.*, University Hospitals of Cleveland, 11/1/35—

\* See footnote, p. 58.



- William Penn Frazer, *Richmond*; M.D., Duke (9/2/33); *Int., Stud. Health Serv.*, Duke Hospital, 10/1/33-6/30/34; *Int. in Obs. & Gyn.*, Johns Hopkins Hospital, 9/1/34-8/15/35; *Int. in Ped.*, Bellevue Hospital, New York City, 8/15/35-12/31/35; *present address (in practice)*, Hamilton, Va.
- Gustave Freeman, *Georgia, Brown, Columbia*; M.D., Duke (9/2/33); *Int. in Med.*, Duke Hospital, 9/3/33-6/30/34; *Int. and Ass't. Res. in Path.*, New Haven Hospital, and *Ass't. in Path.*, Yale School of Medicine, 7/1/34-12/31/35; *Ass't. in Med.*, Univ. of Chicago Clinics, 1/1/36—
- James Francis Fulp, *Vanderbilt, Duke*; M.D., latter (6/8/35); *Int.*, Goldsboro City Hospital, Goldsboro, N. C., 7/1/35-8/31/35; *Int.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., 9/1/35-12/31/35; *Int., rotating*, Jersey City Medical Center, Jersey City, N. J., 1/1/36-6/30/37; *present address (in practice)*, Bessemer City, N. C.
- Jerome Gaskel, *West Virginia*; med. stud., *ibid.*, 1929-31; M.D., Duke (3/22/33); *Int.*, City of Cincinnati General Hospital, 4/1/33-6/30/34; *Ass't. Res.*, Boston Floating Hospital, 10/1/34-9/30/35; *Res. in Surg.*, Huntington Memorial Hospital, Huntington, W. Va., 11/1/35-3/31/36; *present address (in practice)*, Williamson, West Va.
- Charles Houston Gay, *Duke*; med. stud., North Carolina, 1929-31; M.D., Duke (3/22/33); *Int. in Ped.*, New York Hospital, New York City, 3/20/33-9/30/33; *Int. in Ped.*, New Haven Hospital, 10/1/33-10/31/34; *Ass't. Res. in Ped.*, Duke Hospital, 11/1/34-6/30/36; *present address (in practice)*, Martinsburg, W. Va.
- Cole Deane Genge, *Ripon, Stanford*; M.D., Duke (12/18/34); *Int., rotating*, Hospital of St. Vincent de Paul, Norfolk, Va., 7/1/35-6/30/36; *Int.*, Duke Hospital, 11/17/36-12/31/36, and *House Officer and Res. in Roent.*, Boston City Hospital, 1/1/37—
- Richard Hobart Godwin, *New York, Duke, Illinois*; M.D., Duke (6/9/34); *Int., rotating*, Cumberland Street Hospital, Brooklyn, N. Y., 7/1/34-6/30/36; *Int. and Ass't. Res. in Ped.*, New York Hospital, 7/1/36—
- Abner Gorfain, *New York, North Carolina*; M.D., Duke (9/1/34); *Int.*, Christ Hospital, Cincinnati, O., 9/1/34-8/31/35; *Int. in Surg.*, Bellevue Hospital, 9/1/35-2/29/36, and *Res. in Urol.*, Postgraduate Hospital, New York City, 6/1/36—
- Robert Williams Graves, *Davidson, Princeton*; M.D., Duke (9/2/33); *Int. and Ass't. Res. in Med.*, New Haven Hospital, 1/1/34-12/31/35; *Postgraduate work*, National Hospital, London, Eng., 1/1/36-6/30/36; *Instr. in Med. and Anat.*, and *Assoc. in Neurol. and Anat.*, Duke Univ. School of Medicine, 7/1/36—
- Jack Greenfield, *Johns Hopkins*; M.D., Duke (8/31/35); *Int. in Surg.*, Duke Hospital, 9/1/35-6/30/36; *Int., rotating*, Flower and Fifth Avenue Hospital, 7/1/36-6/30/37; and *Res. in Surg.*, York Hospital, New York City, 7/15/37—
- William Lorenz Haltom, *Hendrix, Alabama*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int. in Surg. and Ass't. Res. in Urol.*, Duke Hospital, 7/1/32-11/30/33; *Res.*, Presbyterian Hospital, Chicago, Ill., 1/1/34-12/31/34; *Ass't. Res. and Res. in Urol.*, Duke Hospital, 1/1/35-12/31/36; *present address (in practice)*, City Hospital, Martinsburg, W. Va.
- Robert Albert Hare, *Ohio State*; M.D., Duke (9/1/34); *Int. in Med.*, French Hospital, New York City, 9/1/34-6/10/35; *Int., Ass't. Res. and Ass't. Mellon Fellow in Ophthal.*, Johns Hopkins Hospital, 9/1/35—
- Walter Thalman Hasler, Jr., *Brigham Young*; med. stud., Utah, 1929-31; M.D., Duke (3/22/33); *Int., rotating*, Church Home & Infirmary, Baltimore, Md., 7/1/33-6/30/34; *Ass't. Res. and Res. in Otolaryn.*, Duke Hospital, 7/1/34-6/30/36; *present address (in practice)*, Everett, Wash.
- George Heinitch, *North Carolina*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int. in Surg.*, *Ass't. Res. in Priv. Diag. Clinic*, and *Ass't. Res. and Res. in Otolaryn.*, Duke Hospital, 7/1/32-3/31/37; *present address (in practice)*, Logan, West Va.

\* See footnote, p. 58.

- Jay Leonard Hutchison, *Marshall*; M.D., Duke (12/19/33); *Int. in Surg.*, Duke Hospital, 1/1/34-6/30/34; *Res.*, N. C. Orthopedic Hospital, Gastonia, N. C., 7/1/34-6/30/35; *Res. in Orth.*, Duke Hospital, 7/1/35-2/29/36; *Res.*, N. C. Orthopedic Hospital, 3/1-3/15/36; *Res. in Orth.*, Univ. of Virginia Hospital, 3/16/5-31/36, and Logan General Hospital, Logan, W. Va., 6/1/36-5/31/37; *present address (in practice)*, Huntington, West Va.
- Arthur M. Jenkins, *Springfield, Simpson*; M.D., Duke (12/20/35); *Int.*, *rotating and Ass't. Res. in Ped.*, Union Memorial Hospital, Baltimore, Md., 1/1/36-6/30/37; *Ass't. Res. in Med.*, Medical College of Virginia Memorial Hospital, Richmond, Va., 7/1/37—
- Raymond Taylor Jenkins, *North Carolina*; M.D., Duke (6/8/35); *Int. in Surg.*, Duke Hospital, 7/1/35-11/24/35; *Int. and Ass't. Phys.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., 4/1/36—
- Julia Mary Jones, *Denison, Ohio State*; M.D., Duke (3/21/35); *Int. in Med.*, Johns Hopkins Hospital, 3/22/35-6/30/35; *Vol. Ass't.*, New York State Hospital, Ray Brook, N. Y., 9/1/35-12/31/35; *Ass't. in Anat.*, Duke Med. Sch., and *Int. and Ass't. Res. in Med.*, Duke Hospital, 1/1/36-12/31/37; *Ass't.*, William H. Maybury Sanatorium, Northville, Mich., 1/1/38—
- Roderic Orlando Jones, *Johns Hopkins, John B. Stetson*; M.D., Duke (12/20/35); *Int. in Med.*, University of Chicago Clinics, 1/1/36-12/31/36; *Int.*, Baker Sanatorium, Lumberton, N. C., 1/1/37—
- Austin Louis Joyner, *Milsaps, Tulane*; M.D., Duke (9/1/34); *Int.*, *rotating*, Goldsboro City Hospital, Goldsboro, N. C., 9/1/34-9/30/34; *Fellow in Bact. and Int. in Med.*, Duke Hospital, 10/1/34-6/30/36; *Ass't. in Path. and Bact.*, Rockefeller Institute, 7/1/36—
- George William Joyner, *Wake Forest*; med. stud., *ibid.*, 1928-30; M.D., Duke (6/11/32); *Int.*, *Ass't. Res. and Res. in Surg.*, Duke Hospital, 7/1/32—
- Rayburn Nelson Joyner, *Wake Forest*; M.D., Duke (9/2/33); *Junior and Senior Int.*, *rotating*, Jacksonville Duval County Hospital, Jacksonville, Fla., 9/3/33-6/30/35; *in practice*, Hastings, Fla., 7/1/35-6/30/36; *Director*, Bureau of Maternal and Child Health, Jacksonville, Fla., 9/1/36—
- William Paul Kavanagh, *Wheaton*; M.D., Duke (8/31/35); *Int.*, *rotating*, Highland Park General Hospital, Detroit, 9/1/35-6/30/36; *Int. in Med.*, Henry Ford Hospital, Detroit, 7/1/36-6/30/37; *Ass't. Res. in Surg.*, Watts Hospital, Durham, N. C., 7/1/37—
- Charles Mattox Kendrick, *Duke*; med. stud., North Carolina, 1929-31; M.D., Duke (6/10/33); *Int.*, Wheeling Hospital, Wheeling, W. Va., 7/1/33-6/30/34; *Ass't.* to Dr. W. P. Sammons, Wheeling, 7/1/34-6/30/36; *Sen. Int. and Ass't. Res. in Med.*, Medical College of Virginia Memorial Hospital, Richmond, Va., 10/1/36—
- Beverly Randolph Kennon, III, *Virginia, William and Mary*; M.D., Duke (9/1/34); *Int. in Med.*, Johns Hopkins, 9/1/34-8/31/35; *Int. in Ophth.*, and *Junior House Surg.*, New York Eye & Ear Infirmary, 10/1/35—
- Orrin Frank Kleckner, *Buffalo, Duke*; med. stud., Vanderbilt, 1929-31; M.D., Duke (12/21/32); *Int. and Ass't. Res. in Med.*, Millard Fillmore Hospital, Buffalo, N. Y., 7/1/33-2/26/35; *Res. in Med.*, Pontiac General Hospital, Pontiac, Mich., 2/27/35-6/30/36; *present address (in practice)*, Seco, Ky.
- Charles Edward Leach, *Johns Hopkins, Duke*; M.D., latter (6/8/35); *Int. in Med.*, Johns Hopkins Hospital, 9/1/35-8/31/36; *Ass't. Res. in Med.*, Duke Hospital, 9/1/36-8/31/37, and University of Cleveland Hospitals, 9/1/37—
- David Washington Lester, *Wichita*; M.D., Duke (6/8/35); *Int.*, *rotating and Res. in Med.*, San Diego County General Hospital, San Diego, Cal., 7/1/35-6/30/37; *Res. in Neuropsychiatry*, Compton Sanatorium, Compton, Cal., 7/1/37—
- Gerald Clellan Lewis, *Berka, Carson-Newman*; med. stud., Tennessee, 1929-31; M.D., Duke (3/22/33); *Int.*, *rotating*, Pasadena Hospital, Pasadena, Calif., 10/15/33-7/15/34; *Int. and Res.*, *rotating*, St. Joseph's Hospital, Phoenix, Ariz., 11/20/34-11/27/36; *present address (in practice)*, Kenvir, Ky.

\* See footnote, p. 58.

- John Fletcher Lovejoy, *Emory*; med. stud., Alabama, 1928-30; M.D., Duke (6/11/32); *Int. in Med.*, Duke Hospital, 7/1/32-6/30/33; *Int. in Orth.*, Shriners Hospital, Springfield, Mass., 7/8/33-6/30/34; *Fellow and Ass't. in Orth.*, Dr. Willis C. Campbell Clinic, Memphis, Tenn., 7/1/34-6/30/36; *present address (in practice)*, 1022 Park Ave., Jacksonville, Fla.
- George Kenneth Mahl, *Ohio State, Duke*; M.D., *ibid.* (3/21/34); *Int.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., 3/22/34-6/1/34; *Int., rotating*, Christ Hospital, Jersey City, N. J., 7/1/34-6/30/35; *Int. in Obs. & Gyn.*, Duke Hospital, 7/1/35-11/20/35; *Sen. Int., rotating*, Christ Hospital, 12/1/35-3/31/36; *present address (in practice)*, Ironton, Ohio.
- Samuel Jeremiah Margolin, *Duke*; M.D., *ibid.* (3/21/34); *Int., rotating*, Jersey City Medical Center, 3/22/34-6/30/35; *Res. in Otolaryn.*, New York Beth Israel Hospital, 7/1/35-6/30/36; *present address (in practice)*, 1120 Bright Beach Ave., Brooklyn, N. Y.
- Donald Feige Marion, *Duke*; M.D., *ibid.* (8/31/35); *Int. in Med. and Ass't. in Gastro-Enterology*, Henry Ford Hospital, Detroit, 9/1/35—
- Bernyrd Carlisle McLawhorn, *Furman*; M.D., Duke (6/8/35); *Int. and Res., rotating*, Hospital of St. Vincent de Paul, Norfolk, Va., 7/1/35-6/30/37; *present address (in practice)*, Williamston, S. C.
- Robert Lindsay McMillan, *Davidson, North Carolina*; M.D., Duke (9/2/33); *Int. in Med.*, University Hospitals of Cleveland, 9/3/33-6/30/34; *Ass't. Res. in Med. and in Bact.*, and *Res. in Med.*, Duke Hospital, 11/1/34-7/31/37; *present address (in practice)*, Winston-Salem, N. C.
- Robert Felton Mikkell, *John B. Stetson, Georgia*; M.D., Duke (12/19/33); *Int., Ass't. Res., Res. and Instr. in Ped.*, Strong Memorial Hospital, Rochester, N. Y., 9/1/33-6/30/36; *Int.*, Iola Sanatorium, Rochester, N. Y., 7/1/36-11/30/36; *present address (in practice)*, Lakeland, Fla.
- Ben Neely Miller, Jr., *Duke*; M.D., *ibid.* (6/8/35); *Int. and Ass't. Res. in Med.*, Duke Hospital, 7/1/35-6/30/37; *Instr. in Phys. Diag. and Ass't. in Chem.*, University of Alabama Medical School, 9/1/37—
- Charles Francis Montgomery, *Drury, Missouri*; med. stud., *ibid.*, 1929-31; M.D., Duke (3/22/33); *Int. in Surg. and Ass't. Res. and Res. in Orth. Surg.*, Henry Ford Hospital, Detroit, Mich., 9/1/33-8/31/37; *Voluntary Ass't. in Otolaryn.*, Duke Hospital, 9/1-12/31/37; *present address (in practice)*, Roswell, N. M.
- Robert McGee Mullen, II, *Pittsburgh*; M.D., Duke (9/1/34); *Int. in Path.*, Baltimore City Hospitals, 9/1/34-8/31/35; *Int. in Obs.*, Johns Hopkins Hospital, 9/1/35-8/31/36, and Boston Lying-In Hospital, Boston, Mass., 9/1/36-12/31/36; *present address (in practice)*, Pasadena, Calif.
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- Francis Leroy Owens, *Pittsburgh*; M.D., Duke (9/1/34); *Int. in Surg.*, Duke Hospital, 9/1/34-12/31/34; *Int., rotating*, Moore County Hospital, Inc., Pinehurst, N. C., 1/6/35-8/31/36; *present address (in practice)*, Pinehurst, N. C.
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\* See footnote, p. 58.



- Edward Frost Parker, Jr., *South Carolina*; M.D., Duke (9/2/33); *Int. in Surg.*, Strong Memorial Hospital, Rochester, N. Y., 9/3/33-6/30/34, and Vanderbilt Univ. Hospital, 7/1/34-6/30/35; *Ass't. Res. in Surg.*, University of Virginia Hospital, 7/1/35-6/30/36; *Ass't. in Surg.*, Vanderbilt University Medical School and *Ass't. Res. in Surg.*, Vanderbilt University Hospital, 7/1/36—
- Talmage Lee Peele, *Duke*; med. stud., Vanderbilt, 1929-31; M.D., Duke (6/9/34); *Int. and Ass't. Res. in Med.*, Duke Hospital, 7/1/34-6/30/36; *Int. and Res. in Neurol.*, Bellevue Hospital, New York City, 7/1/36-6/30/37; *Ass't. in Anat.*, Johns Hopkins Medical School, 9/1/37—
- Marion Timothy Plyler, Jr., *North Carolina State, Duke*; M.D., *ibid.* (12/19/33); *Int.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., 1/1/34-6/1/34; *Int.*, rotating, Hospital of St. Vincent de Paul, Norfolk, Va., 7/1/34-6/30/35; *Int.*, N. C. Sanatorium, 7/1/35-3/31/36; *Ass't. Director*, N. C. Public Health Service, 5/1/36-4/30/37; *present address (in practice)*, Nashville, N. C.
- John Fairman Preston, Jr., *Davidson*; M.D., Duke (6/8/35); *Int.*, rotating, Piedmont Hospital, Atlanta, Ga., 7/1/35-6/30/36, and in *Path.*, Duke Hospital, 7/1/36-6/30/37; *Gen'l. Ass't.*, Alexander Hospital, Soonchun, Korea, 9/1/37—
- Robert Harry Pudenz, *Dayton*; M.D., Duke (6/8/35); *Vol. Ass't. in Neurol.*, National Hospital, London, England, 7/1/35-12/15/35; *Int. in Surg.*, Duke Hospital, 1/1/36-9/30/36, and in *Neuro-Surg.*, Royal Victoria Hospital, Montreal, Canada, 10/1/36—
- Richard Zimri Query, Jr., *Davidson*; M.D., Duke (9/1/34); *Int.*, rotating, Henry Ford Hospital, Detroit; *Ass't. Res. and Res. in Med.*, Duke Hospital, 10/1/35—
- Raymond Hamilton Ralston, *State Teachers, Geneva*; M.D., Duke (9/1/34); *Int.*, rotating, Postgraduate Hospital, Univ. of Pennsylvania, 9/1/34-6/30/36; *Med.*, R. O. C., Carlisle, Pa., 7/5/36-7/18/36; *present address (in practice)*, Lakeland, Fla.
- Lester Paul Rasmussen, *Snow, Utah*; med. stud., latter, 1931-32; M.D., Duke (6/8/35); *Int.*, rotating, Salt Lake General Hospital, 7/1/35-6/30/36; *Int.*, University of Chicago Clinics, 7/1/36-6/30/37, and *Ass't. Res. and Res. in Ped.*, Duke Hospital, 7/1/37—
- Paul Gerhard Reque, *Duke*; M.D., *ibid.* (9/2/33); *Int. and Ass't. Res. in Med.*, Duke Hospital, 9/1/33-6/30/35; *Ass't. Res. in Med.*, Lakeside Hospital, Cleveland, O., 7/1/35-6/30/36; *Instr. and Med. Ass't.*, Yale University, 7/1/36—
- Louis Carroll Roberts, *Davidson*; M.D., Duke (9/2/33); *Int. in Surg. and in Path. and Ass't. Res. in Surg.*, Duke Hospital, 9/1/33—
- Dennis Hardesty Robinson, *West Va.*; med. stud., *ibid.*, 1929-31; M.D. Duke (3/21/35); *Int.*, rotating, Baker Sanatorium, Lumberton, N. C., 4/15/35-6/30/36; *Res.*, rotating, Huntington Memorial Hospital, 12/1/36-6/30/37, and *Physician*, National Elks Home, Bedford, Va., 7/1/37—
- Frank Hurd Robinson, Jr., *Michigan*; M.D., Duke (6/8/35); *Int. in Med.*, Duke Hospital, 7/1/35-6/30/36; Field Work. U. S. P. H. Serv., Mecklenburg Co., N. C., 7/1/36-12/31/36; *Int. in Ped.*, Johns Hopkins Hospital, 1/1/37-6/30/37; *Ass't. Res. in Med.*, Rockefeller Institute Hospital, New York City, 7/1/37—
- Kenneth Brown Rothey, *Pittsburgh*; med. stud., West Va., 1929-31; M.D., Duke (12/19/33); *Int.*, rotating, Fitkin Memorial Hospital, Neptune, N. J., 1/1/34-6/30/35; *Res. in Surg. and Obs.*, Somerset Hospital, Somerville, N. J., 7/1/35-3/31/36; *present address (in practice)*, Elizabeth, Pa.
- Nathan Ruby, *New York, Virginia*; M.D., Duke (9/2/33); *Int. in Med.*, Sinai Hospital, Baltimore, Md., 7/1/33-6/30/34; *Int.*, *Ass't. Res. and Res. in Ped.*, Jewish Hospital of Brooklyn, 7/1/34-6/30/37; *Res.*, Kingston Avenue Hospital, Brooklyn, 7/1-12/31/37; *present address (in practice)*, 1810 Avenue N., Brooklyn, N. Y.

\* See footnote, p. 58.

- Edwin Macrae Rucker, *Randolph-Macon*; M.D., Duke (9/1/34); *Int. in Med., and Int. and Ass't. Res. in Obs. & Gyn.*, Duke Hospital, 9/1/34—
- Louis John Saxe, *John Carroll, Duke*; M.D., *ibid.* (9/1/34); *Int. Stud. Health Serv.*, Duke Hospital, 9/1/34-6/30/35; *Res. in Neuro. & Psychiatry*, Univ. of Virginia Hospital, 7/1/35-9/22/36; *Ass't. Sup't.*, Arizona State Hospital, Phoenix, Ariz., 3/1/37—
- Eugene Nestor Scadron, *Dartmouth, Yale*; M.D., Duke (9/1/34); *Fellow in Med. and Int. in Surg.*, Duke Hospital, 10/1/34-6/30/36; *Int. and Research Ass't. in Obs. & Gyn.*, Bellevue Hospital, New York City, 7/1/36—
- Ralph Ernest Schmidt, *Pittsburgh*; M.D., Duke (6/8/35); *Int., rotating, Hamot Hospital, Erie, Pa.*, 7/1/35-6/30/36; *Int. in Neuro-Surg.*, Massachusetts General Hospital, Boston, 7/1/36-9/30/36; *Int., gen'l.*, House of Good Samaritan, Boston, 10/1/36-3/31/37; *Jr. Ass't. Res.*, Sanatorium Division, Boston City Hospital, 4/1/37-6/30/37; *present address (in practice)*, Wesleyville, Pa.
- Walter Eugene Sharpe, Jr., *Duke*; M.D., *ibid.* (9/1/34); *Int. and Ass't. Res., rotating, and Ass't. Res. in Urol.*, Henry Ford Hospital, Detroit, 9/1/34-2/28/37; *U. S. Public Health Service*, Marine Hospital, Detroit, 3/1/37—
- Ralph Kenneth Shields, *Pennsylvania State*; M.D., Duke (8/31/35); *Int. in Med.*, Henry Ford Hospital, Detroit, 9/1/35—
- Irving Michael Siegel, *Lehigh*; M.D., Duke (9/1/34); *Int., rotating, and Admitting Phys.*, Kings County Hospital, Brooklyn, N. Y., 9/1/34-9/30/36; *present address (in practice)*, 607 West End Ave., New York City.
- Albert Randall Smith, *Wisconsin*; med. stud., *ibid.*, 1929-32; M.D., Duke (3/21/34); *Int. in Path. and in Surg.*, Duke Hospital, 3/22/34-6/30/35; *Int. and Res. in Orth. Surg.*, State University of Iowa, University Hospitals, 7/1/35—
- John Goodrich Smith, *North Carolina*; M.D., Duke (12/18/34); *Int., rotating, Goldsboro City Hospital, Goldsboro, N. C.*, 1/1/35-6/30/35, and University Hospital, Philadelphia, 7/1/35-6/30/37; *Int. in Med.*, Park View Hospital, Rocky Mount, N. C., 7/1/37—
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- Joseph Blackburn Stevens, *Davidson*; M.D., Duke (12/20/35); *Int. in Path. and in Med.*, Duke Hospital, 1/1/36—
- Ralph Richards Stevenson, *Utah*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int. in Surg.*, Strong Memorial Hospital, Rochester, N. Y., 7/1/32-6/30/33; *Ass't. Res. in Path.*, Baltimore City Hospitals, 9/1/33-2/4/34; *Contract Surgeon*, Walter Reed Hospital, Washington, D. C., 1/29/34-8/22/34; *Res. in Path.*, Baltimore City Hospitals, 9/1/34-6/30/35; *Ass't. in Surg.*, Walter Reed Hospital, 7/1/35-6/30/36; *present address (in practice)*, 3131 Sixteenth St., N. W., Washington, D. C.
- Robert Boyd Stith, Jr., *Duke*; M.D., *ibid.* (6/8/35); *Int. in Med.*, Duke Hospital, 7/1/35-6/30/36, and Cornell Medical Center, New York City, 7/1/36-6/30/37; *present address (in practice)*, Florence, S. C.
- Benj. Anderson Strickland, Jr., *Mars Hill, Wake Forest*; M.D., Duke (12/19/33); *Int., Woman's Hospital, Baltimore*, 12/20/33-8/31/34; *Ass't. Res.*, U. S. Marine Hospital, Baltimore, 9/1/34-6/30/35; *Ass't. Surg.*, Headquarters, Third Corps Area, U. S. Army, Baltimore, 7/1/35-6/30/36; *1st Lieut.*, Med. Corps, U. S. Army, Edgewood Arsenal, Md.
- Hugh Franklin Swingle, Jr., *Virginia, Tennessee, State Teachers*; M.D., Duke (11/30/35); *Int. in Med.*, Duke Hospital, 12/1/35-9/30/36; *Fellow in Surg.*, Mayo Clinic, Rochester, Minn., 10/1/36—
- Abraham Jack Tannenbaum, *Ohio State, Duke*; M.D., latter (6/8/35); *Int., rotating, St. Leo's Hospital, Greensboro, N. C.*, 7/1/35-6/30/36, and Galinger Municipal Hospital, Washington, D. C., 7/1/36-6/30/37; *present address (in practice)*, 614 W. Market St., Greensboro, N. C.

\* See footnote, p. 58.

- Waller Littlepage Taylor, Jr., *Duke*; M.D., *ibid.*, (9/2/33); *Int.*, rotating, Hospital of St. Vincent de Paul, Norfolk, Va., 9/3/33-6/30/34; *Ass't. Res. in Med.*, Memorial Hospital, Norfolk, Va., 7/1/34-6/30/35; *present address (in practice)*, Virginia Beach, Va.
- Robert Hendon Thomason, *Sam Houston Teachers, Agricultural & Mechanical College of Texas, Duke*; M.D., *ibid.* (8/31/35); *Int. in Ped.*, Duke Hospital, 9/1/35-6/30/36; *Ass't. Res. in Med.*, Baltimore City Hospitals, 7/1/36—
- Thaddeus Gilbert Upchurch, *North Carolina*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int. and Ass't. Res.*, rotating, and *Res. in Obs. & Gyn.*, City of Atlanta Grady Hospital, Atlanta, Ga., 7/1/32-6/30/35; *present address (in practice)*, Smithfield, N. C.
- Myron Cherrington Waddell, *Nebraska Wesleyan, St. Louis*; med. stud., *ibid.*, 1929-31; M.D., Duke (12/19/33); *Int. in Path.*, Presbyterian Hospital, Denver, Colo., 1/1/34-8/31/35; *present address (in practice)*, 637 Republic Bldg., Denver, Colo.
- Needham Edgar Ward, Jr., *Wake Forest, Texas, North Carolina*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int.*, rotating, James Walker Hospital, Wilmington, N. C., 4/1/32-6/30/32, and McKeesport Hospital, McKeesport, Pa., 7/1/32-7/31/32; *Int. and Res.*, rotating, Watts Hospital, Durham, N. C., 8/1/32-6/30/34; *present address (in practice)*, Greenville, N. C.
- William Julian Weatherford, *Alabama*; med. stud., 1929-31; M.D., Duke (3/22/33); *Int.*, rotating, Watts Hospital, Durham, N. C., 7/1/33-6/30/34, and City Hospital, Mobile, Ala., 7/1/34-4/1/35; *present address (in practice)*, Pascagoula, Miss.
- Thomas Wilson Wesson, *Mississippi*; M.D., Duke (6/8/35); *Int. in Ped.*, Strong Memorial Hospital, 7/1/35-6/30/36, and rotating, Rochester General Hospital, Rochester, N. Y., 9/1/36-8/31/37; *Int.*, Otolaryn., Barnes Hospital, St. Louis, Mo., 9/1/37—
- Millard Brown White, *Florida, Duke*; M.D., latter (6/8/35); *Int.*, rotating, Western Pennsylvania Hospital, Pittsburgh, Pa., 7/1/35-6/30/36; *Int. and Res. Physician*, Municipal Hospital, Tampa, Fla., 7/1/37—
- Walter Raphael Wiley, *Wake Forest*; med. stud., *ibid.*, 1928-30; M.D., Duke (6/11/32); *Int.*, rotating, Watts Hospital, Durham, N. C., 7/1/32-6/30/33; *House Physician*, Goldsboro City Hospital, Goldsboro, N. C., 9/1/33-12/31/33; *Int. in Med. and Ass't. Phys.*, Wassaic State School, Wassaic, N. Y., 1/1/34-2/16/36; *present address (in practice)*, Chesterfield, S. C.
- William Edgar Wilkinson, *Davidson*; med. stud., North Carolina, 1928-30; M.D., Duke (6/11/32); *Int. in Surg.*, *Ass't. Res. in Path. and in Surg.*, Duke Hospital, 7/1/32-6/30/35; CCC, Army 4, Franklinton, N. C., 8/1/35-12/31/36; CCC, Fort Bragg, N. C., 1/1/37-6/30/37; *1st Lieut.*, Army Medical Center, Washington, D. C., 9/1/37—
- Jarrett Earl Williams, *Emory & Henry*; M.D., Duke (9/2/33); *Int. and Ass't. Res. in Path.*, Duke Hospital, 7/1/33-6/30/35; *Adjunct Prof. in Path.*, Univ. of Texas, School of Medicine, Galveston, Texas, 9/1/35-8/31/36; *Assoc. Med. Director*, Tenn. Eastman Corp., Kingsport, Tenn., 4/1/36-8/15/37; *Assoc. Prof. of Path.*, Univ. of Texas School of Medicine, Galveston, Texas, 9/1/37—
- James Raymond Wilson, *Alabama, Harvard.*; M.D., Duke (6/9/34); *Int.*, rotating, Albany Hospital, Albany, 7/1/34-6/30/35, and St. Elizabeth's Hospital, Utica, N. Y., 7/1/35-6/30/36; *present address (in practice)*, Utica, N. Y.
- Charles Terry Wood, *Furman, Michigan*; M.D., Duke (6/9/34); *Int. and Res.*, rotating, Hospital of St. Vincent de Paul, Norfolk, Va., 7/1/34-1/11/36; *Res.*, rotating, Taylor Hospital, Ridley Park, Pa., 1/13/36-6/30/37; *present address (in practice)*, Chester, Pa.

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S. Rumanos, '37  
W. O. Self, '37  
B. A. Strickland, Jr., '33  
R. H. Thomason, '35

*Massachusetts:*

Boston ..... 5  
R. J. Duffy, '33  
H. P. Harris, Jr., '36  
H. M. Horack, '37  
B. M. Shinnors, '37  
C. D. Genge, '34

*Michigan:*

Detroit ..... 12  
G. J. Axelson, '37  
E. W. Brian, '34  
C. F. Chunn, '35  
A. D. Finch, '35  
R. C. Fugate, '37  
D. F. Marion, '35  
G. K. Massengill, Jr., '36  
A. H. Pate, '37  
W. Phillips, '36  
W. E. Sharpe, Jr., '34  
R. K. Shields, '35  
J. S. Wilson, '37  
Northville ..... 1  
J. M. Jones, '35  
Saginaw ..... 1  
G. L. Ackerman, '33

*Minnesota:*

Lindstrom ..... 1  
A. Neumaier, '35  
Minneapolis ..... 2  
A. R. E. Buirge, '35  
F. H. Crago, '35  
Rochester ..... 1  
H. F. Swingle, Jr., '35

<i>Mississippi:</i>		<i>Durham</i> .....	34
Pascagoula .....	1	R. D. Adams, '36	
W. J. Weatherford, '33		T. F. Adkins, '36	
<i>Missouri:</i>		L. A. Andrew, Jr., '32	
St. Louis .....	3	J. M. Arena, '32	
A. C. Gose, '37		L. D. Baker, '33	
J. R. Martin, '37		W. H. Bridgers, '36	
T. W. Wesson, '35		J. C. Burge, Jr., '37	
<i>New Jersey:</i>		J. L. Callaway, '32	
Atlantic City .....	1	J. W. Devine, Jr., '35	
H. L. Dein, '37		L. V. Dill, '36	
Belleville .....	1	E. B. Easley, '34	
B. B. Burrill, Jr., '36		W. D. Farmer, '34	
Greystone Park .....	1	J. D. Fitzgerald, '34	
J. S. Forbes, Jr., '34		R. W. Graves, '33	
Newark .....	3	C. L. Gray, Jr., '37	
E. M. Braun, '36		G. T. Harrell, Jr., '36	
H. M. Holtz, '35		H. I. Harvey, '37	
W. A. Leff, '36		G. W. Joyner, '32	
New Brunswick .....	1	W. P. Kavanagh, '35	
N. O. Bowman, '32		D. L. Lovell, '36	
<i>New York:</i>		E. E. Menefee, Jr., '36	
Brooklyn .....	6	C. F. Montgomery, '33	
B. G. Dinin, '33		V. Moseley, '36	
N. Hornick, '37		H. S. Munroe, Jr., '35	
S. J. Margolin, '34		C. L. Ould, '37	
A. R. Marsicano, '37		P. B. Parsons, '36	
N. Ruby, '33		R. W. Postlethwait, '37	
V. L. Szanton, '36		R. Z. Query, Jr., '34	
Port Chester .....	1	L. P. Rasmussen, '35	
R. E. Nitschke, '37		L. C. Roberts, '33	
New York City .....	15	E. M. Rucker, '34	
F. W. Alter, Jr., '37		W. Schulze, '36	
M. B. Badanes, '36		G. E. Stayer, '34	
B. Bissell, '36		J. B. Stevens, '35	
J. V. Blady, '32		Elkin .....	1
C. Cramer, '35		C. A. Willis, '36	
W. H. Glass, '37		Greensboro .....	2
R. H. Godwin, '34		J. C. Burwell, Jr., '33	
A. Gorfain, '34		A. J. Tannenbaum, '35	
J. Greenfield, '35		Greenville .....	1
A. L. Joyner, '34		N. E. Ward, Jr., '32	
B. R. Kennon, III, '34		Hendersonville .....	1
H. L. Reed, '36		W. N. Fortescue, '34	
F. H. Robinson, Jr., '35		Liberty .....	1
E. N. Scadron, '34		B. B. Dalton, '32	
I. M. Siegel, '34		Lumberton .....	1
Saranac Lake .....	1	R. O. Jones, '35	
C. B. VanArsdall, Jr., '37		Nashville .....	1
Schenectady .....	1	M. T. Plyler, Jr., '33	
K. J. Costich, '35		Pinehurst .....	2
Utica .....	1	F. L. Owens, '34	
J. R. Wilson, '34		M. T. Pishko, '36	
Wassaic .....	1	Raleigh .....	1
R. J. Depner, '32		M. B. Cree, '34	
White Plains .....	1	Rocky Mount .....	1
C. A. Collins, '35		J. G. Smith, '34	
<i>North Carolina:</i>		Sanatorium .....	3
Bessemer City .....	1	J. S. Denholm, '35	
J. F. Fulp, '35		R. T. Jenkins, '35	
Black Mountain .....	1	F. R. Klenner, '36	
W. T. Spence, '36		Smithfield .....	1
Chapel Hill .....	1	T. G. Upchurch, '32	
G. L. Donnelly, '33		Winston-Salem .....	3
		C. N. Adams, '36	
		E. B. Brooks, '33	
		R. L. McMillan, '33	

<i>Ohio:</i>		Hot Springs .....	1
Cleveland .....	4	J. H. Cherry, '33	
H. J. Fox, '35		Norfolk .....	3
C. E. Leach, '35		M. S. Herrington, '37	
W. C. Spring, Jr., '36		J. E. Sheehy, '37	
C. P. Stevick, '36		M. E. Street, Jr., '37	
Ironton .....	1	Richmond .....	3
G. K. Mahl, '34		A. M. Jenkins, '35	
Youngstown .....	1	C. M. Kendrick, '33	
M. E. Conti, '33		A. F. Turner, Jr., '36	
<i>Pennsylvania:</i>		Rural Retreat .....	1
Chester .....	1	O. D. Boyce, '33	
C. T. Wood, '34		Virginia Beach .....	1
Elizabeth .....	1	W. L. Taylor, Jr., '33	
K. B. Rothey, '33		<i>Washington:</i>	
Philadelphia .....	1	Everett .....	1
M. W. Fischbach, '36		W. T. Hasler, Jr., '33	
Pittsburgh .....	1	<i>West Virginia:</i>	
P. Naumoff, '37		Beckley .....	1
Reading .....	2	E. N. DuPuy, '32	
G. I. Uhde, '36		Charleston .....	1
J. G. Whildin, '37		J. Boiarsky, '35	
Wesleyville .....	1	Huntington .....	1
R. E. Schmidt, '35		J. L. Hutchison, '33	
<i>South Carolina:</i>		Logan .....	1
Chesterfield .....	1	G. Heinitsch, '32	
W. R. Wiley, '32		Martinsburg .....	2
Florence .....	1	C. H. Gay, '33	
R. B. Stith, Jr., '35		W. L. Haltom, '32	
Williamston .....	1	Williamston .....	1
B. C. McLawhorn, '35		Jerome Gaskel, '33	
<i>Tennessee:</i>		<i>Canada:</i>	
Nashville .....	2	Montreal .....	1
W. R. Newbern, '37		R. H. Pudenz, '35	
E. F. Parker, Jr., '33		<i>Korea:</i>	
<i>Texas:</i>		Soonchun .....	1
Galveston .....	1	J. F. Preston, Jr., '35	
J. E. Williams, '33		<i>South America:</i>	
<i>Virginia:</i>		Colombia .....	1
Bedford .....	1	G. H. Cortes, '35	
D. H. Robinson, '35			
Hamilton .....	1		
W. P. Frazer, '33			



# INDEX

Ackerman, G. L. ....	62, 71	Bernheim, F. ....	5, 31
Adams, C. N. ....	62, 72	Bernheim, M. L. C. ....	5, 30
Adams, E. W. ....	45	Berry, C. D. ....	51
Adams, F. M., Jr. ....	50	Beyer, E. C. ....	45
Adams, R. D. ....	10, 16, 58, 72	Biddle, R. M. ....	51
Adkins, T. F. ....	17, 58, 72	Biochemistry ....	30, 41
Administrative Committee ....	15	Biology, requirement in ....	28
Administrative Council ....	19	Bissell, B. ....	58, 72
Admission, application for ....	27	Black, J. R., Jr. ....	51
committee on ....	19	Blady, J. V. ....	62, 72
requirements for ....	28	Blocksom, B. H., Jr. ....	62, 71
Administration, Duke Hospital ....	15, 24	Board, expenses ....	43
Administration, officers of ....	4	Bogardus, G. McC. ....	51
Administrative committee ....	15	Boiarsky, J. ....	62, 73
Administrative staff ....	15	Bonser, W. H. ....	48
Admitting office ....	21	Books ....	26, 43
Advanced standing, requirements ....	28	Bowman, N. O. ....	62, 72
Alter, F. W., Jr. ....	58, 72	Boyce, O. D. ....	62, 73
Alter, R. L. ....	50	Bradford, W. Z. ....	5, 38
Altwater, F. V. ....	5, 15, 19, 24	Bradway, J. B. ....	39
Alyea, E. P. ....	5, 15, 19, 35	Bramer, J. D. ....	17
Ames, R. H. ....	45	Brandt, J. W. ....	51
Anatomy ....	30, 41	Braun, E. M. ....	58, 72
Anderson, E. D. ....	45	Brian, E. W. ....	62, 71
Anderson, N. L. ....	48	Bridgers, W. H. ....	10, 17, 32, 58, 72
Anderson, W. B. ....	5, 15, 35	Brooks, E. B. ....	63, 72
Andrew, L. A., Jr. ....	62, 72	Brown, E. W. ....	45
Andrus, F. H. ....	48	Brown, F. C. ....	4
Anesthesia ....	25	Brown, I. W., Jr. ....	48
Angier B. Duke Memorial and other Loan Funds ....	43	Brown, J. W., Jr. ....	45
Application for Admission ....	27	Brown, K. B. ....	45
for internships ....	27	Brown, R. ....	48
postgraduate study ....	25	Brown, W. E. ....	51
School of Dietetics ....	24	Brumbach, W. K. ....	48
School of Medicine ....	28	Bryson, T. D. ....	39
School of Nursing ....	23	Buckner, F. W. ....	58, 71
Aptitude Tests ....	28	Bugg, E. L., Jr. ....	17
Arena, J. M. ....	5, 16, 39, 62, 72	Buirge, A. R. E. ....	63, 71
Arnold, R. A. ....	17	Bunch, C. F. ....	51
Associate Staff ....	15	Burge, J. C., Jr. ....	58, 72
Athletic Fee ....	43	Burgess, W. W. ....	45
Atwood, T. W. ....	5, 15, 35	Burk, J. M. ....	51
Autumn quarter ....	41, 42	Burns, M. V. ....	17, 51
Axelson, G. J. ....	58, 71	Burrill, B. B., Jr. ....	58, 72
		Burwell, J. C., Jr. ....	63, 72
Babcock, K. O. ....	45	Caldwell, E. ....	10, 16, 34
Bachelor of Science (medicine) ....	29	Calendar ....	3
(nursing) ....	24	Callaway, J. L. ....	10, 15, 33, 63, 72
Bacteriology ....	33, 41, 42	Camalier, C. W., Jr. ....	51
Badanes, M. B. ....	58, 72	Campbell, R. L. ....	48
Badgley, W. O. ....	48	Carmichael, G. G. ....	51
Baeder, F. N. ....	48	Carter, B. ....	5, 15, 19, 38, 40
Baer, G. J. ....	50	Carter, R. R. ....	51
Baker, B. ....	15, 19, 23	Cayer, D. ....	51
Baker, J. S. ....	62, 71	Certificate of graduate dietitian ....	22
Baker, L. D. ....	10, 16, 35, 62, 72	Chambliss, S. ....	48
Baker, R. D. ....	5, 16, 32	Changes necessary for three quarter schedule ....	40
Balas, E. M. ....	50	Chemistry, requirements in ....	28
Barefoot, S. W. ....	51	Cherry, J. H. ....	63, 73
Barnes, G. B. ....	45	Chiefs of Services ....	15
Bassett, V. H. ....	20	Chunn, C. F. ....	63, 71
Batchelor, R. P. ....	20	Clark, E. H. ....	15
Bateman, O. J., Jr. ....	48	Clark, G. A. ....	20
Bauer, J. T. ....	20	Clark, S. L. ....	20
Baum, R. E. ....	45	Clinical examination ....	42
Baylin, G. J. ....	58, 71	Clinical microscopy ....	34, 42
Beall, K. H. ....	20	Clinics ....	21, 22
Beamer, C. ....	10, 31	private diagnostic ....	23
Beard, J. W. ....	5, 16, 35	Cobb, C. H. ....	24
Beaumont Committee ....	19	Cobey, M. C. ....	63, 71
Bednarz, S. I. ....	45	Collins, C. A. ....	63, 72
Benbow, E. P., Jr. ....	45		



Collins, C. C., Jr. ....	48	Entrance, requirements for .....	28
Commencement fees .....	43	Epperson, J. H. ....	11, 40
Committees .....	15, 19	Erickson, C. C. ....	11, 16, 32
Conant, N. F. ....	6, 15, 33	Etter, H. S. ....	48
Conforti, V. ....	48	Everett, J. W. ....	6, 30
Conti, M. E. ....	63, 73	Examinations .....	42
Coolidge, T. B. ....	10, 30	committee on .....	19
Cortes, G. H. ....	63, 73	Executive Committee .....	
Costich, K. J. ....	58, 72	School of Medicine .....	19
Covell, K. W. ....	17	Expenses, School of Medicine .....	43
Covington, J. M., Jr. ....	51	Exum, W. A. ....	45
Cox, J. H. ....	51		
Crago, F. H. ....	63, 71	Facilities of the Hospital .....	21
Cramer, C. ....	63, 72	Faculty .....	5
Craven, E. B., Jr. ....	15, 34	Farmer, W. D. ....	11, 17, 35, 64, 72
Cree, M. B. ....	63, 72	Farrar, J. ....	15
Crispell, R. S. ....	6, 15, 19, 33	Fees, athletic .....	43
Crosby, F. H. ....	51	commencement and diploma .....	43
Cross, A. R. ....	51	hospital .....	21
Currens, J. H. ....	52	health .....	43
Curriculum, committee on .....	19	School of Medicine .....	43
School of Medicine .....	40	Public Dispensary .....	23
(first year) .....	41	School of Nursing .....	23
(second year) .....	41	National Board of Medical	
(third year) .....	42	Examiners .....	43
		Fellowship, research .....	43
Dabney, M. Y. ....	20	Ferguson, G. B. ....	11, 16, 35
Dalton, B. B. ....	63, 72	Few, W. P. ....	4, 19
Daniel, J. M. ....	18	Feyder, S. ....	17
Daniel, W. E. ....	10, 16, 35	Field A. L. ....	52
Dann, W. J. ....	6, 31	Final Clinical examinations .....	42
Darden, W. H. ....	64, 71	Finch, A. D. ....	64, 71
David, J. K., Jr. ....	45	Finkelstein, H. ....	6, 16, 35
Davidson, L. T. ....	20	Finner, R. W. ....	48
Davison, W. C. ....	4, 6, 15, 19, 39, 40	First-year curriculum .....	41
Degrees, B.S. (medicine) .....	29	First-year students .....	45
B.S. (nursing) .....	23	Fischbach, M. W. ....	59, 73
M.D. ....	29	Fisher, W. H., Jr. ....	48
Dein, H. L. ....	58, 72	Fitzgerald, J. D. ....	64, 72
Denholm, J. S. ....	64, 72	Fletcher, R. V. ....	11, 16, 35
Dentistry .....	38	Flowers, R. L. ....	4, 19
Departments of instruction .....	30	Fogel, D. H. ....	52
Depner, R. J. ....	64, 72	Forbes, J. S., Jr. ....	64, 72
Devine, J. W., Jr. ....	11, 17, 35, 64, 72	Forbes, R. D. ....	20
Diagnosis, physical .....	34, 42	Forbus, W. D. ....	6, 15, 19, 32, 39
Diagnostic Clinic .....	23	Ford, J. B., Jr. ....	48
Dick, M. ....	6, 15, 31, 33	Foreword .....	2
Dietetics, School of .....	19	Fortescue, W. N. ....	64, 72
committee on .....	19	Forth, P. T. ....	42
Dill, L. V. D. ....	11, 18, 32, 59, 72	Four quarter schedule .....	41, 42
Dinni, B. G. ....	64, 72	Fox, H. J. ....	64, 73
Diploma of graduate nurse .....	23	Fraser, C. K. ....	11, 17, 38
Diploma fees .....	43	Frazer, W. P. ....	65, 73
Doan, C. A. ....	20	Free time .....	41, 42
Doctor of Medicine .....	29	Freeman, G. ....	65, 71
Donaldson, J. H., Jr. ....	45	Fritz, M. ....	17
Donnelly, G. L. ....	64, 72	Fugate, R. C. ....	59, 71
Douglas, J. M. ....	52	Fulmer, W. H. ....	48
Downing, J. R. ....	52	Fulp, J. F. ....	65, 72
Drummond, W. F. ....	59, 71	Fulton, M. N. ....	20
Duncan, C. R. ....	52	Funds, loan .....	43
Duffy, R. J. ....	64, 71		
Duke, Angier B. Memorial .....	43	Gardner, C. E., Jr. ....	6, 16, 19, 35
Duke Hospital administration .....	15	Gardner, G. H. ....	20
Duke, J. B. ....	28	Gaskel, J. ....	65, 73
Duke University Medical Society .....	27	Gault, W. H. ....	17
Dunlap, E. B., Jr. ....	52	Gay, C. H. ....	65, 73
DuPuy, E. N. ....	64, 73	General statement .....	21
		General Surgery .....	35
Eadie, G. S. ....	6, 19, 31, 40	Genge, C. D. ....	65, 71
Eagle, W. W. ....	6, 15, 35	Gengenbach, F. P. ....	20
Eagles, A. Y. ....	52	Geographical Distribution of Graduates	
Easley, E. B. ....	17, 64, 72	of the School of Medicine .....	71
Eckbert, W. F. ....	52	German, requirements .....	28
Edwards, J. W. ....	59, 71	Germer, H. R. ....	59, 71
Electives .....	36	Gibbes, J. H. ....	20
Elliott, F. D. ....	45	Gibbons, J. J., Jr. ....	48
Emmett, J. E. ....	45	Gibson, P. ....	15
English, requirement in .....	28	Gill, A. J. ....	52

Gill, D. C. ....	52	Instruction, departments of .....	30
Gilliam, J. S., Jr. ....	45	Instruction, schedule of .....	41, 42
Ginn, S. A. ....	48	Internships .....	26
Glass, W. H. ....	59, 72	committee on .....	19
Goddard, D. W. ....	48	Interne staff .....	17
Godwin, R. H. ....	65, 72	Irving, R. C. ....	46
Gonder, T. A., Jr. ....	59, 71	Ivie, J. McK. ....	52
Goodman, E. ....	25		
Gorfain, A. ....	65, 72	Jacobs, J. E. ....	11, 16, 35
Gose, A. C. ....	59, 72	Jeans, P. C. ....	20
Government, Student .....	27	Jelks, E. ....	20
Graduates obtaining the required two		Jenkins, A. M. ....	66, 73
years of hospital or laboratory training	58	Jenkins, R. T. ....	66, 72
Graduates who have completed satisfac-		Johnson, R. E. ....	49
torily two or more years of hospital		Johnston, R. L. ....	20
or laboratory training .....	62	Johnston, C. ....	7, 15, 33
Grant, H. B. ....	45	Joistad, A. H. ....	52
Graves, R. W. ....	7, 16, 30, 65, 72	Jones, J. M. ....	12, 16, 34, 66, 71
Gray, C. L., Jr. ....	17, 59, 72	Jones, J. W. ....	12, 17, 38
Greenfield, J. ....	65, 72	Jones, P. H., Jr. ....	20
Guerin, B. B. ....	45	Jones, R. O. ....	66, 72
Gynecology .....	38, 42	Jones, R. R., Jr. ....	7, 16, 19, 35
		Jones, T. T. ....	15, 34
Haas, W. R. ....	52	Journals, medical .....	26
Haines, C. E., Jr. ....	59, 71	Joyner, A. L. ....	66, 72
Haines, R. F. ....	48	Joyner, G. W. ....	12, 16, 35, 66, 72
Hall, C. F. ....	52	Joyner, R. N. ....	66, 71
Hall, S. C. ....	15, 34	Junior medicine .....	34, 42
Haltom, W. L. ....	65, 73	Surgery .....	42
Hamblen, E. C. ....	7, 16, 19, 38	Junior, senior students .....	50
Hamilton, H. E. ....	18		
Hanes, F. M. ....	7, 15, 19, 33	Karansku, S. ....	46
Hansen-Prüss, O. C. E. ....	7, 15, 33	Karmay, W. H. ....	46
Hare, R. A. ....	65, 71	Kaufman, W. H. ....	17, 52
Harned, J. ....	15, 25	Kavanagh, W. P. ....	66, 72
Harrell, G. T., Jr. ....	11, 18, 32, 59, 72	Kelley, J. W. ....	49
Harris, H. P., Jr. ....	59, 71	Kemp, M. D. ....	8, 33
Harris, J. S. ....	11, 16, 30, 39	Kempner, W. ....	7, 15, 33
Harris, W. W. ....	48	Kendrick, C. M. ....	66, 73
Harrison, E. K. ....	11, 16, 38	Kennon, B. R. III .....	66, 72
Harshman, L. D. ....	49	Kerner, J. W. ....	59, 71
Hart, D. ....	7, 15, 19, 35	Kernodle, H. B. ....	53
Harvey, H. I. ....	17, 59, 72	King, J. T., Jr. ....	20
Hasler, W. T., Jr. ....	65, 73	Kinney, T. D. ....	59, 71
Hastings, W. D., Jr. ....	52	Kintzing, W. B. ....	46
Hawkins, W. C. ....	49	Kiser, G. A. ....	46
Haymond, W. V. ....	52	Kleckner, O. F. ....	66, 71
Haywood, H. B., Jr. ....	46	Klein, J. R. ....	12, 30
Heinitsh, G. ....	65, 73	Klenner, F. R. ....	59, 72
Henderson, A. F. ....	59, 71	Kline, B. S. ....	20
Herlinger, R. D. ....	20	Kohn, H. I. ....	12, 31
Herrington, M. S. ....	59, 73	Kondritzer, A. A. ....	12, 30
Hetherington, D. C. ....	7, 30	Kornegay, R. D. ....	53
Hiatt, J. S., Jr. ....	49	Kostant, G. H. ....	49
Hickman, H. S. ....	52	Kress, J. H. ....	18
Hirst, D. V. ....	46	Kubie, L. S. ....	20
Histology .....	41	Kuhn, H. H. ....	49
Hobgood, R. N. ....	15		
Hock, C. W. ....	46	Laperal, T. ....	46
Hodges, J. W. ....	46	Larsen, C., Jr. ....	53
Holscher, E. C. ....	11, 16, 35	Latchem, C. W. ....	53
Hollinshead, W. H. ....	7, 30	Laundry .....	43
Hollister, W. F. ....	52	Lawrence, J. ....	53
Holman, E. F. ....	20	Leach, C. E. ....	66, 75
Holtz, H. M. ....	59, 72	Lee, A. F. ....	60, 71
Hooker, D. ....	20	Lee, L. E., Jr. ....	53
Horack, H. M. ....	59, 71	Leff, W. A. ....	60, 72
Hornick, N. ....	59, 72	Legal Medicine and Toxicology .....	39
Horsley, W. N. ....	46	Lesko, J. M. ....	53
Hospital .....		Letzing, C. A. ....	15
Administration .....	24	Lester, D. W. ....	66, 71
Facilities .....	21	Levy, E. D. ....	12, 30
policy .....	21	Lewis, G. C. ....	66, 71
Teaching staff .....	15	Library .....	26
Hospital rates .....	21	committee on .....	19
Hutchison, J. L. ....	66, 73	Lide, T. N. ....	53
		Lincicome, R. C. ....	53
Institutions at which the medical		List of medical students .....	45
students were prepared .....	56	Loan funds .....	43

- London, A. H., Jr. ....16, 39  
 Lourdeaux, S. J. ....49  
 Louvojoy, J. F. ....67, 71  
 Lovell, D. L. ....17, 60, 72  
 Lucas, P. W. ....53  
 Lyon G. M. ....20  
  
 McAllister, H. A. ....60, 71  
 McAnally, W. J., Jr. ....53  
 McBryde, A. M. ....8, 16, 39, 40  
 McCain, P. P. ....8  
 McCann, W. S. ....20  
 MacCardle, R. C. ....12, 30  
 McClure, R. D. ....20  
 MacColl, W. A. ....53  
 MacConnell, J. W. ....20  
 McCracken, J. P. ....53  
 McCrea, F. D. ....8, 31  
 McCulloch, H. ....20  
 McCulloch, R. P. ....46  
 McFayden, O. L., Jr. ....46  
 McGill, C. ....20  
 McLawhorn, B. C. ....67, 73  
 McMillan, R. L. ....11, 16, 34, 67, 72  
 McNamara, P. J. ....60, 71  
 Mahl, G. K. ....67, 73  
 Major, R. H. ....20  
 Maness, P. F. ....49  
 Mann, F. R. ....46  
 Manning, I. H. ....12, 16, 32  
 Margolin, S. J. ....67, 72  
 Margolis, G. ....49  
 Margolis, L. H. ....49  
 Marion, D. F. ....67, 71  
 Markham, C. B. ....4  
 Martin, A. G. M., III ....46  
 Martin, D. S. ....8, 15, 33  
 Martin, D. W. ....60, 71  
 Martin, E. W. ....15, 24  
 Martin, J. M. ....18  
 Martin, J. R. ....60, 72  
 Marsicano, A. R. ....60, 72  
 Martzloff, K. H. ....20  
 Marx, W. ....8, 35  
 Massengill, G. K., Jr. ....60, 71  
 Mathematics, requirements in ....28  
 Matthews, A. A. ....20  
 Mattocks, T. R. ....53  
 Mayer, W. F. ....20  
 Medical care ....27  
 Medical journals ....26  
 Medical students, institutions at  
     which prepared ....56  
 Medical students, the states in  
     which born ....57  
 Medicine ....33  
     Doctor of ....29  
     (Junior) ....42  
     (Senior) ....42  
 Menefee, E. E., Jr. ....12, 33, 34, 60, 72  
 Merkley, H. E. ....53  
 Messer, A. L. ....46  
 Metcalf, W. ....17  
 Meyer, F. P., Jr. ....53  
 Meyers, M. ....46  
 Michel, H. O. ....12, 30  
 Mickey, H. C. ....15, 24  
 Microscopes ....43  
 Microscopy, clinical ....34, 42  
 Mikell, R. F. ....67, 71  
 Miller, B. N. ....67, 71  
 Miller, R. P. ....49  
 Mills, W. H. ....49  
 Nims, L. H., Jr. ....46  
 Moffitt, O. P., Jr. ....53  
 Montgomery, C. F. ....67, 72  
 Moore, F. R. ....60, 71  
 Morgan, J. E. ....12, 15, 31, 38  
 Morrison, A. W. ....20  
 Morrow, A. S. ....60, 71  
 Morrow, R. C., Jr. ....53  
 Morton, H. G. ....18, 53  
 Moscley, V. ....17, 60, 72  
 Moser, L. A. ....54  
 Moss, J. E. ....49  
 Mulholland, H. B. ....20  
 Mullen, R. M., II ....67, 71  
 Muller, M. H. ....15, 25  
 Mulford, E. H., II ....46  
 Munroe, C. A. ....54  
 Munroe, H. S., Jr. ....12, 17, 35, 67, 72  
 Munson, H. T. E. ....54  
 Murphy, J. B. ....20  
 Muse, J. P. ....46  
  
 Nalle, B. C., Jr. ....54  
 National Board of Medical Examiners ....43  
 Naumoff, P. ....60, 73  
 Neill, R. B. ....46  
 Neumaier, A. ....67, 71  
 Neuropsychiatry ....34  
 Neurosurgery ....38  
 Newbern, W. R. ....60, 73  
 Newman, G. C. ....54  
 Newman, O. M. ....46  
 Nicholson, W. M. ....8, 16, 30, 33  
 Nickau, R. H. ....54  
 Nisbet, D. S. ....49  
 Nitschke, R. E. ....60, 72  
 Nixon, P. I. ....20  
 Nixon, P. I., Jr. ....54  
 Nixon, R. R. ....49  
 Noojin, R. O. ....17  
 Nursing, School of ....23  
 Nutrition ....31, 41  
  
 Obstetrics ....38, 42  
 Officers of Administration ....4  
 Ophthalmology ....36, 42  
 Orgain, E. S. ....8, 16, 31, 33  
 Orthopedics ....37, 42  
 Osler, W. ....26  
 Otolaryngology ....37, 42  
 Ould, C. L. ....17, 60, 72  
 Owens, F. L. ....67, 72  
  
 Pachman, D. J. ....67, 71  
 Palen, G. M. ....54  
 Palmer, C. B. ....20  
 Paquet, J. F. ....49  
 Parasitology ....33, 41  
 Parker, E. F., Jr. ....68, 73  
 Parrish, A. A. ....54  
 Parsons, P. B. ....12, 18, 32, 60, 72  
 Pate, A. H. ....60, 71  
 Pathology ....32, 41, 42  
 Patients, public ward ....21  
     private ....22  
 Paullin, J. E. ....20  
 Pearce, A. S. ....8, 33  
 Pearce, R. L. ....12, 16, 35  
 Pediatrics ....38, 42  
 Peele, T. L. ....68, 71  
 Peery, J. McG. ....54  
 Penfield, W. ....20  
 Perlzweig, W. A. ....8, 15, 19, 30  
 Perry, R. M. ....54  
 Perryman, O. C., Jr. ....46  
 Persons, E. L. ....9, 16, 19, 33  
 Pettus, W. H., Jr. ....17  
 Pfeffer, A. Z. ....47  
 Pharmacology ....31, 41  
 Phillips, W. ....60, 71  
 Physical diagnosis ....34, 42  
 Physics, requirements in ....28  
 Physiology ....31, 41  
 Pickett, H. F. ....15  
 Pishko, M. T. ....60, 72

- Plyler, M. T., Jr. . . . . 68, 72  
 Podger, K. A. . . . . 47  
 Policy of hospital . . . . . 21  
 Poole, A. K. . . . . 20  
 Poole, P. P. . . . . 49  
 Porter, R. . . . . 15, 24  
 Postgraduate clinics . . . . . 25  
 Postgraduate study (medicine) . . . . . 25  
   (nursing) . . . . . 24  
   (public health) . . . . . 40  
 Postlethwait, R. W. . . . . 17, 60, 72  
 Poston, M. A. . . . . 12, 33  
 Powell, W. F. . . . . 54  
 Preston, J. F., Jr. . . . . 68, 73  
 Preventive medicine . . . . . 40  
 Private diagnostic clinic . . . . . 23  
 Private patients . . . . . 22  
 Private room rates . . . . . 22  
 Provinsky, L. B. . . . . 61, 91  
 Psychiatry . . . . . 41  
 Public Dispensary . . . . . 22, 23  
   Staff . . . . . 15, 16, 17  
 Public health . . . . . 40  
 Public ward patients . . . . . 21  
 Pudenz, R. H. . . . . 68, 73  
 Pyle, L. A., Jr. . . . . 54  
  
 Quarters . . . . . 41, 42  
 Query, R. Z., Jr. . . . . 13, 16, 34, 68, 72  
 Quillian, M. P. . . . . 47  
  
 Ralston, R. H. . . . . 68, 71  
 Raley, R. B. . . . . 13, 16, 35  
 Rankin, W. S. . . . . 9  
 Raper, E. S. . . . . 24  
 Raper, J. S. . . . . 54  
 Rasmussen, L. P. . . . . 13, 16, 39, 68, 72  
 Reamer, I. T. . . . . 15  
 Record Library . . . . . 25  
 Reed, H. L. . . . . 61, 72  
 Reeves, R. J. . . . . 9, 15, 38  
 Regional representatives . . . . . 20  
 Regulations, fees and expenses . . . . . 43  
 Reid, M. R. . . . . 20  
 Reiser, R. . . . . 13, 34  
 Rent, rooms . . . . . 43  
 Representatives, regional . . . . . 20  
 Reque, P. G. . . . . 68, 71  
 Requirements, advanced standing . . . . . 28  
   B.S. degree (medicine) . . . . . 29  
   B.S. degree (nursing) . . . . . 24  
   entrance . . . . . 28  
   M.D. degree . . . . . 29  
   School of Dietetics . . . . . 24  
   School of Nursing . . . . . 23  
 Research fellowships . . . . . 43  
 Residencies . . . . . 26  
 Resident staff . . . . . 16  
 Reuter, E. G. . . . . 13, 17, 38  
 Ricker, W. G. . . . . 20  
 Ricketts, E. T. . . . . 61, 71  
 Ridges, A. J. . . . . 20  
 Riley, W. J. . . . . 47  
 Rindge, M. E. . . . . 47  
 Roberts, L. C. . . . . 13, 17, 35, 68, 72  
 Roberts, R. W. . . . . 49  
 Robinson, D. H. . . . . 68, 73  
 Robinson, F. H., Jr. . . . . 68, 72  
 Roentgenology . . . . . 38  
 Roll of students . . . . . 45  
 Rollins, C. D. . . . . 18  
 Room-rent . . . . . 43  
 Ross, I. S. . . . . 13, 30, 54  
 Ross, N. F. . . . . 18  
 Ross, R. A. . . . . 9, 16, 19, 38  
 Ross, W. T. . . . . 54  
 Rothey, K. B. . . . . 68, 73  
 Ruby, N. . . . . 68, 72  
  
 Rucker, E. M. . . . . 13, 17, 38, 69, 72  
 Rumpalos, S. . . . . 61, 71  
 Ruffin, J. . . . . 9, 16, 33  
 Rundles, R. W. . . . . 49  
 Rutherford, R. T., Jr. . . . . 49  
 Rysanek, W. J., Jr. . . . . 54  
  
 Sachs, J. W. . . . . 54  
 Saleeby, D. N. . . . . 49  
 Sanger, B. J. . . . . 20  
 Sapp, C. J. . . . . 49  
 Savage, E. D. . . . . 47  
 Sawyer, L. E. . . . . 54  
 Saxe, L. J. . . . . 69, 71  
 Scadron, E. N. . . . . 69, 72  
 Schaefer, S. W. . . . . 20  
 Schanher, P. W., Jr. . . . . 54  
 Schedule of Instruction . . . . . 49, 51  
   Public dispensary . . . . . 22  
 Schiebel, H. M. . . . . 13, 17, 35  
 Schlayer, C. . . . . 13  
 Schmidt, R. E. . . . . 69, 73  
 Schnoor, T. G. . . . . 54  
 Scholarships . . . . . 43  
 School of Dietetics . . . . . 24  
   Medicine, Curriculum . . . . . 23  
   Nursing . . . . . 23  
 Schulze, W. . . . . 13, 16, 34, 61, 72  
 Science, Bachelor of (medicine) . . . . . 29  
   (nursing) . . . . . 23  
 Scientific journals . . . . . 26  
 Scott, J. G., Jr. . . . . 47  
 Sealy, W. C. . . . . 13, 17, 32  
 Second-year curriculum . . . . . 41  
 Seitz, G. D. . . . . 13, 17, 38  
 Self, W. O. . . . . 61, 71  
 Sellers, W. H. . . . . 47  
 Semmes, R. E. . . . . 20  
 Senior (medicine) . . . . . 42  
 Surgery . . . . . 42  
 Senior students . . . . . 50  
 Shands, A. R., Jr. . . . . 9, 15, 35  
 Sharpe, W. E., Jr. . . . . 69, 71  
 Sheehy, J. E. . . . . 61, 73  
 Sherwood, M. M. . . . . 39  
 Shields, R. A., Jr. . . . . 50  
 Shields, R. K. . . . . 69, 71  
 Shinnars, B. M. . . . . 18, 61, 71  
 Shipp, M. E. . . . . 13, 30  
 Siegel, I. M. . . . . 60, 72  
 Sills, P. M. . . . . 50  
 Silver, G. A., III . . . . . 18, 54  
 Simpson, P. E. . . . . 50  
 Slemmons, J. M. . . . . 20  
 Smart, G. F. . . . . 47  
 Smith, A. R. . . . . 69, 71  
 Smith, A. T. . . . . 16  
 Smith, B. E. . . . . 9, 33  
 Smith, D. T. . . . . 9, 15, 16, 19, 33, 39, 40  
 Smith, J. G. . . . . 69, 72  
 Smith, O. N. . . . . 16, 34  
 Smith, R. C. . . . . 53  
 Smith, S. G. . . . . 9, 33  
 Snedegar, P. D. . . . . 47  
 Snively, M. H. . . . . 25  
 Sotirion, G. A. . . . . 50  
 Speir, R. C., Jr. . . . . 50  
 Spence, W. T. . . . . 61, 72  
 Spring, W. C., Jr. . . . . 61, 73  
 Spring quarter . . . . . 41, 42  
 Sprunt, D. H. . . . . 9, 16, 19, 32  
 Stack, D. R., Jr. . . . . 47  
 Staff, administrative . . . . . 15  
 Staff, attending . . . . . 15  
 Staff, public dispensary . . . . . 15  
 Staff, resident . . . . . 16  
 Staff, technical . . . . . 15  
 Stark, S. . . . . 55  
 Statement, general . . . . . 21

States in which the medical students were born .....	57	Turner, A. F. ....	61, 73
Stauffer, C. C. ....	47	Turner, L. ....	55
Stayer, G. E. ....	13, 16, 35, 69, 72	Uhde, G. I. ....	61, 73
Steiger, H. P. ....	50	Upchurch, S. E. ....	14, 17, 35
Stenhouse, G. C. ....	47	Upchurch, T. G. ....	70, 72
Stevens, J. B. ....	17, 69, 72	Urology .....	37, 42
Stevenson, R. R. ....	69, 71	Vacation dates .....	3
Stevick, C. P. ....	61, 73	Valk, H. L. ....	47
Stifel, J. L. ....	20	VanArsdall, C. B., Jr. ....	61, 72
Stith, R. B., Jr. ....	69, 73	VanHoy, J. M. ....	55
Stocksdale, H. I. ....	4	Varner, P. H. ....	55
Storey, W. D. ....	49	Vaughan, W. W. ....	14, 16, 38
Street, D. M. ....	17	Veale, N. C. ....	55
Street, M. E., Jr. ....	61, 73	Venning, W. L., Jr. ....	50
Strickland, B. A. ....	69, 71	Waddell, M. C. ....	70, 71
Stroud, G. M., III ....	55	Wadsworth, J. A. C., II ....	55
Stuart, E. C., Jr. ....	17	Walp, F. M. J. ....	55
Student Government .....	27	Walsh, R. E. ....	50
Student Technicians		Wannamaker, W. H. ....	4
committee on .....	19	Ward, N. E., Jr. ....	70, 72
Students by classes .....	56	Ward rates .....	21
Students, first year .....	45	Watson, G. A., Jr. ....	55
Students, second year .....	48	Weatherford, W. J. ....	70, 72
Students, junior .....	50	Webb, R. C. ....	55
Students, senior .....	50	Webster, N. M. ....	55
Study, postgraduate (medicine) .....	25	Weekes, D. J. ....	47
(nursing) .....	24	Weeks, K. D. ....	56
(public health) .....	40	Welch, J. H. ....	50
Styron, C. W. ....	55	Wells, W. L. ....	14, 30, 56
Summary of curriculum .....	42	Wesson, T. W. ....	70, 72
Summer quarter .....	42	Weston, W. ....	20
Surles, D. L. ....	55	Wexler, I. B. ....	56
Surgery .....	35	Weyant, E. A. ....	50
(Junior) .....	42	Whilden, J. G. ....	61, 73
(Senior) .....	42	Whitaker, C. S. ....	56
Swett, F. H. ....	10, 19, 30	Whitaker, R. B., Jr. ....	50
Swingle, H. F., Jr. ....	69, 71	White, M. B. ....	70, 71
Szanton, V. L. ....	61, 72	Whitley, R. M., Jr. ....	50
Taliaferro, R. M. ....	47	Widmark, W. L. ....	47
Tannenbaum, A. J. ....	69, 72	Wilbur, E. L. ....	14, 17, 32
Taylor, H. G. ....	50	Wiley, W. R. ....	70, 73
Taylor, H. M. ....	10, 16, 19, 30, 39, 40	Wilkinson, W. E. ....	70, 71
Taylor, W. L., Jr. ....	70, 73	Williams, J. E. ....	70, 73
Terms, dates .....	3, 41, 42	Williams, P. M. ....	18
Thetford, J. D. ....	55	Williams, R. ....	14, 17, 34
Third-year class .....	50	Willis, C. A. ....	61, 72
Third-year curriculum .....	42	Wills, T. W. ....	47
Thomas, W. L., Jr. ....	10, 16, 38	Willson, P., Jr. ....	48
Thomason, R. H. ....	70, 71	Wilson, J. R. ....	70, 72
Thompson, M. D. ....	20	Wilson, J. S. ....	61, 71
Thompson, W. G. ....	47	Wilson, R. A. ....	56
Thornhill, E. H. ....	55	Wilson, W. W. ....	62, 71
Thornhill, G. T., Jr. ....	47	Winstead, G. A. ....	48
Thornhill, R. P. ....	47	Winter quarter .....	41, 42
Three quarter schedule .....	41	Wise, N. B. ....	14, 17, 34
Timberlake, L. F. ....	47	Withers, W. A. ....	18
Timmons, J. M. ....	47	Women students .....	28
Timmons, J. R. ....	55	Wood, C. T. ....	70, 73
Trachtenberg, W. ....	55	Wood, R. C. ....	50
Trout, H. H. ....	20	Woodhall, B. ....	10, 16, 35
Trout, P. C. ....	47	Woodruff, W. E. ....	50
Troxler, E. R. ....	55	Woolsey, F. M., Jr. ....	56
Tuition, School of Medicine .....	43	Wren, J. C. ....	56
School of Nursing .....	23	Wright, DeW. ....	18
Tullis, J. L. ....	50	Wyllivell, D. B. ....	56
Tupper, J. A. ....	50	Yates, A. ....	10, 16, 30
		Youngstrom, K. A. ....	14, 30







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*School of Forestry*

1938



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DURHAM, NORTH CAROLINA  
1938





## CONTENTS

	PAGE
UNIVERSITY CALENDAR .....	5
OFFICERS OF ADMINISTRATION .....	7
FACULTY OF THE SCHOOL OF FORESTRY.....	8
DUKE FOREST STAFF .....	8
FORESTRY IN DUKE UNIVERSITY: GENERAL STATEMENT.....	9
Educational Facilities.....	10
The Duke Forest.....	11
The Arboretum.....	13
SCHOLARSHIPS AND FELLOWSHIPS IN FORESTRY.....	14
REQUIREMENTS FOR ADMISSION TO THE SCHOOL OF FORESTRY.....	15
REQUIREMENTS FOR THE DEGREE OF MASTER OF FORESTRY.....	16
FORESTRY IN THE GRADUATE SCHOOL.....	17
COURSES AND SUBJECTS OF INSTRUCTION.....	23
FEES AND EXPENSES.....	27



## UNIVERSITY CALENDAR

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1938

- June 13. Monday, 9:00 A.M.—Registration of students for Summer School, first term.
- June 13. Monday, 2:00 P.M.—Instruction begins for Summer School, first term.
- July 4. Monday—Independence Day: a holiday.
- July 22-23. Friday, Saturday—Final examinations for Summer School, first term.
- July 25. Monday, 9:00 A.M.—Registration of students for Summer School, second term.
- July 25. Monday, 2:00 P.M.—Instruction begins for Summer School, second term.
- Sept. 2-3. Friday, Saturday—Final examinations for Summer School, second term.
- Sept. 15. Thursday, 9:00 A.M.—Dormitories open to Freshmen.
- Sept. 15. Thursday, 8:00 P.M.—Assembly for all entering Freshmen; Freshmen Orientation Program begins.
- Sept. 20. Tuesday—Freshman instruction begins.
- Sept. 20. Tuesday—Registration and matriculation of new students with advanced standing.
- Sept. 21. Wednesday, 11:00 A.M.—Formal opening of the College; registration of matriculated students.
- Sept. 22. Thursday—Instruction for Sophomores, Juniors, and Seniors begins.
- Sept. 22-24. Thursday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-4:00 P.M.; Friday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-5:00 P.M.; Saturday, 9:00 A.M.-1:00 P.M.—Registration of graduate students.
- Nov. 11. Friday—Armistice Day.
- Nov. 24. Thursday—Thanksgiving Day: a holiday.
- Dec. 10. Saturday—Duke University Day.
- Dec. 20. Tuesday, 1:00 P.M.—Christmas recess begins.

1939

- Jan. 3. Tuesday, 8:00 A.M.—Instruction is resumed.
- Jan. 20. Friday—Mid-year examinations begin.
- Jan. 31. Tuesday—Last day for matriculation for second semester.
- Feb. 1. Wednesday—Second semester begins.
- Feb. 22. Wednesday—Washington's Birthday.

1939

- March 29. Wednesday, 1:00 P.M.—Spring vacation begins.
- April 5. Wednesday, 8:00 A.M.—Instruction is resumed.
- April 15. Saturday—Last day for submitting orations for Wiley Gray Contest.
- April 29. Saturday—Last day for selection of courses for ensuing year.
- May 13. Saturday—Earliest date for beginning of Honors examinations.
- May 23. Tuesday—Final examinations begin.
- June 3. Saturday—Commencement opens: Senior Class Day; meeting of the Board of Trustees.
- June 4. Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 5. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

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### DUKE FOREST STAFF

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# FORESTRY IN DUKE UNIVERSITY

## GENERAL STATEMENT

Duke University, located at Durham, North Carolina, comprises Trinity College, the Woman's College, the Graduate School of Arts and Sciences, and the professional schools of Forestry, Law, Medicine, Nursing, and Religion. Nearly every state of the Union and several nations are represented in the student body of more than thirty-four hundred, not including the enrollment in the Summer School.

The University goes back in its origin to 1838, when Union Institute was founded in Randolph County by the Methodists and Friends. In 1851 the institution became Normal College, and was one of the first schools in America for the training of teachers. In 1859 the name was changed to Trinity College and so continued until 1924, when the College became a part of Duke University.

By virtue of an indenture of trust, executed December 11, 1924, by James Buchanan Duke, a great benefaction was placed at the disposal of humanity by providing for hospitalization, church work in rural communities, and education. The principal feature of the educational provision was the creation of Duke University. Previous to the indenture, Mr. Duke himself, his father Washington Duke, and his brother Benjamin N. Duke had for many years been the chief benefactors of Trinity College.

The University occupies two campuses. The Woman's College campus, with its 108 acres, was formerly the campus of Trinity College. About a mile to the west are the new units of the University. The new campus, totaling 467 acres, also known as the West Campus, was first occupied in September, 1930.

Forestry in Duke University began early in 1931 when, through placing the Duke Forest under intensive management for forestry purposes, a substantial beginning was made in laying the foundations for educational work and research in forestry.

A pre-forestry curriculum, designed for students intent upon pursuing the study of forestry, particularly as a profession after graduation, was organized in Trinity College of Duke University in 1932 (see *Announcement on Undergraduate Instruction in Duke University*). This four-year course of study provides only for instruction in fundamental and auxiliary subjects basic to a proper understanding of the highly specialized work in technical forestry. Duke University offers no professional degree in technical forestry available to undergraduates.

Training in technical forestry leading to the professional degree, Master of Forestry, is offered in the School of Forestry, and is open to all graduates of the pre-forestry curriculum in Trinity College and to graduates of recognized scientific schools or colleges, universities, and professional schools of forestry.

Duke University is also prepared to offer, through the Graduate School of Arts and Sciences, graduate work in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees. This work is available to graduates of schools of forestry of recognized standing, and to college or university graduates holding the Bachelor's degree with their major work in appropriate scientific subjects. Undergraduate subjects which the college student, who does not have forestry training but who is contemplating work toward these two degrees in forestry, should take in preparation for this work may be illustrated as follows: at least two full years in botany, including general morphology or anatomy, the taxonomy, physiology, and ecology of plants; at least one course in zoology or general biology; courses in chemistry, physics, geology, economics, mathematics; and at least two years of French or German.

### EDUCATIONAL FACILITIES

The School of Forestry is located in the Biology Building along with the Departments of Botany and Zoology. The Biology Building contains classrooms, laboratories, offices, a library, three refrigerated rooms, an incineration room, a workshop, and eight dark-rooms. The School is provided with instruments and tools for use in both field and laboratory work in silvics, silviculture, and forest mensuration. Modern surveying instruments and accessory equipment are available for work in forest surveying.

Laboratories for work in wood anatomy and properties are provided with microtechnique and photomicrographic instruments, wood-working machinery, and a 50,000-pound Olsen Universal timber testing machine. A forest soils laboratory is equipped with an all-electric, 12-unit Kjeldahl digestion and distillation apparatus for determining organic and ammoniacal nitrogen, a moisture equivalent and subsoil centrifuge, drying ovens, muffle furnace, sand-sieve shaker, soil-suspension shaker, Parr apparatus for total carbon analysis, potentiometric apparatus, and many pieces of lesser equipment.

Facilities are also available for advanced work in plant physiology, plant anatomy, plant taxonomy, genetics, plant ecology, forest pathology, and the several branches of zoology. Many rooms in the Biology Building are equipped with vacuum, compressed air, direct and alternating electric current, gas, and running water.

The forestry section of the Library contains a growing collection of material on forestry, soils, and closely related subjects. It includes important books and periodicals in English and in French, German, and certain other foreign languages. The Library is well provided with American material, including Federal and State documents and reports. Over 150 periodicals and serials of importance in forestry and related fields are received by subscription or exchange.

Large greenhouses, connected to the Biology Building through a soil-storage and work room, provide adequate space for experimental work.

A nursery has been established by the University for the joint use of

the Sarah P. Duke Floral Garden, the Botany Department, and the School of Forestry. The forestry section of this nursery is used mainly for the growing of planting stock for the Arboretum and trees needed for research or other special purposes.

### THE DUKE FOREST

The Duke Forest, located in Durham and Orange counties, North Carolina, consists of three main units; namely, the Durham, New Hope Creek, and Hillsboro divisions. Early in the development of Duke University, it was recognized that the possession of such an area offered an unusual opportunity for the development of educational work in forestry.

Situated on the lower Piedmont plateau at elevations ranging from 280 to 650 feet, and composed of second-growth shortleaf and loblolly pines, oak, gum, hickory, maple, yellow poplar, ash, and other hardwoods, the Forest is representative of the various types of timber growth found throughout the region. Over a hundred different species of trees are found within or near the Forest. The land is rolling and there is relatively little rock outcrop, swamp, or other land of low productivity for timber growing. The total area of the Forest proper, exclusive of the University campus, was 4,696 acres in 1931.

In developing the Duke Forest the following objectives are being emphasized:

1. Demonstration of the various methods of timber growing, silvicultural treatment, and forest management on a practical and economic basis.

2. Development as an experimental forest for research in the problems of timber growing and in the sciences basic thereto. In spite of the present timber situation and the accompanying economic ills, the technical and scientific knowledge required to handle forest crops efficiently on a permanent basis is still largely lacking. The Duke Forest affords a place where investigations may be carried on to augment this knowledge for the large region of which the local forest and soil conditions are representative.

3. To serve as an outdoor laboratory where field work can be carried on by forestry students under the guidance of the Forestry Faculty. One of the most difficult problems in forestry education is to bring the students into contact with the realities of professional activities. With all operations in the Forest, both routine and investigative, recorded annually, it is possible for a qualified man to get in a short time a degree of practical knowledge or technical expertness which only an organized forest can provide.

The Duke Forest is particularly well located to serve as a field laboratory, in that most of it is adjacent and easily accessible to the University campus. In fact, the Durham Division practically surrounds the West Campus since it was laid out in one corner of the Forest. A paved State highway runs lengthwise through the Durham Division, and several good roads cross the Forest. About fifteen miles of improved woods



roads make all parts of the Forest readily accessible. A five-minute walk will take one well into the Forest, and any part of the Durham or New Hope Creek divisions can be reached by automobile in ten to twenty minutes. At few other places in America can be found provision for forestry training and research which include the necessary forest literally at the door of a large university with its instructional, laboratory, and library facilities.

Although the Forest has been but recently organized, considerable progress has been made toward carrying out the principal objectives recognized at the outset.

Most of the 1,286 acres of open land is, or until recently has been, cultivated. Such of the open land as is not restocking naturally to forest trees is being planted. Here students have an opportunity to study at firsthand the results of many experimental plantations prepared for them in advance. Arbitrarily by mixing species and varying the spacing between the trees in the plantations now being made, the foundation is laid for future research into many perplexing problems, such as species relationships and requirements, the most desirable spacing and species to use in this region, and the survival and relative rates of growth of the different species of trees.

Over fifty permanent sample plots, ranging in size from one-tenth acre to one acre, have been laid out in the Forest to study various problems. The plots are distributed through all the forest types, and range in purpose from studies of the effects of various silvicultural practices to studies of rates of growth and yields of the different timber types. More plots are being established as rapidly as time and funds will permit. Accurate records are kept on all this work, which will provide excellent material for student research. In the future many of these plots can also be used to demonstrate desirable forestry practices.

The work of putting the Forest under intensive management is well under way. A complete inventory of the Forest has been made, and tabulations showing the present volume and annual growth of each separate timber stand are at hand. A forest type and timber stand map for each of the three divisions has also been completed. Each division has been subdivided into permanent compartments, and recommendations for the silvicultural treatment of the separate stands in each compartment, to be embodied in a management plan, are being formulated. Cutting operations within the limits of annual growth are being carried on, and as markets for definite products are developed or expanded such operations will be increased. To date, approximately 500 acres in the pine types have been thinned. These thinnings serve the dual purpose of contributing to the operation of the Forest as a going business and of demonstrating sound forestry practices. An efficient fire protection organization has been developed in co-operation with the State and Federal governments, and forest fire losses are being held to a minimum. In managing the Forest, public recreation activities are recognized. Several recreation areas have been established, and over ten thousand picnickers, hikers, and

horseback riders use the area annually. The Durham and New Hope Creek divisions of the Forest, together with several hundred acres of neighboring privately owned land, are incorporated in an Auxiliary State Game Refuge to give the necessary protection which will ultimately result in an increased amount of game in the surrounding territory. Records are being maintained of all activities in the Forest, and these records will become increasingly useful as they are improved as a result of further experience and research. With the diversification and expansion of activities now going on, the student has an opportunity to study an operating forest in all its phases and to obtain a grasp of the proper balance between theory and practice.

The Forest is admirably located for research in forest soils. An unusually large number of different soil conditions occur in the Forest because of the diversity of parent rock, topography, and past land culture. Major soil differences are due to the nature of the parent material which includes the basic rock of the Carolina Slate formation, granites, Triassic sedimentary rock, and many types of basic intrusives.

An exceptionally good opportunity exists for the conduct of forest research by graduate students due to the wide range in forest types, ages, and soil conditions within the Forest and its proximity to the laboratories, greenhouses, and other scientific equipment and library facilities of the University. Research has already been started on special problems, particularly in the fields of silvics, forest soils, forest-tree physiology, silviculture, forest management, and wood technology. The Forest is used not only for research in forestry but also for research in forest biology by members of allied departments.

### THE ARBORETUM

A feature which will be of outstanding value in the teaching of both forestry and botany in the future is the provision for development of an arboretum. In their annual meeting on June 4, 1934, the Board of Trustees of Duke University, upon the recommendation of their Forestry Committee, voted to set aside permanently an area of over three hundred acres in the Forest to be used for arboretum purposes. The area lies adjacent to the main University campus immediately across the road from the Chapel.

Through the generosity of Mr. W. W. Flowers, of New York, a member of the Class of 1894 and a Trustee of the University, it has been possible to develop preliminary plans and to make a number of plantings. This is naturally a long-time project, and many years will elapse before the Arboretum will be most useful and most attractive. The University Trustees' Committee on Forestry in their report to the Board refers to the Arboretum as follows:

"The Arboretum should serve as a station for the study of trees and woody plants as individuals and in small groups in their scientific relations, economic properties, and cultural characteristics, requirements, and possibilities. It should render an economic service by acting as a



research laboratory where trees and shrubs can be studied from the viewpoint of a fuller utilization of their commercial possibilities. It should render a cultural service by serving as a center where foresters, landscape architects, nurserymen, gardeners, and the general public may increase their knowledge of indigenous trees and shrubs and where they may become acquainted with the foreign species that can be grown here. Within the University the Arboretum will supply living specimens and material for several branches of botany and forestry."

The development of the Arboretum will proceed along these lines as rapidly as available funds and planting stock will permit.

### SCHOLARSHIPS AND FELLOWSHIPS IN FORESTRY

A limited number of graduate scholarships and fellowships are available to men who offer promise of becoming leaders in the forestry profession. These will be available to men of high character and marked scholastic ability, who merit financial aid, as judged by their education, experience, and personal references.

The annual stipend of these scholarships and fellowships range from two hundred and fifty dollars (\$250) to seven hundred and fifty dollars (\$750); the exact amount awarded to each successful applicant will vary with his qualifications. Holders of scholarships and fellowships will be expected to pay the tuition fee and such additional fees as are regularly required.

The following arrangements apply to the scholarships and fellowships:

1. The applicant must have received a degree either from a professional school of forestry of good standing or must be a graduate of a recognized college or university. Candidates not graduates of schools of forestry must have had the major work for their degree in botany or soil science and in the allied basic sciences. In addition, he must have reasonably high scholarship to be admitted to full standing in the School of Forestry or the Graduate School of Arts and Sciences. In general, preference will be given to men who have already obtained technical or professional training as represented by a degree from an accredited school of forestry and who have a reading knowledge of French and German.

2. It is highly desirable that a candidate for a scholarship or fellowship state in his application as specifically as possible the problem which he wishes to study. The definite selection of a suitable problem—one that is specific and affords training both in fundamentals and in technique—is very helpful to the committee on awards.

3. Holders of scholarships and fellowships may become candidates for the Master of Forestry, Master of Arts, or Doctor of Philosophy degrees when they have met the requirements for admission to candidacy for these degrees.

4. Holders of scholarships and fellowships shall devote at least nine consecutive months to an approved program of work in forestry. While in residence they will be expected to do a limited amount of assisting.

5. Application blanks for scholarships and fellowships may be obtained by writing to the Dean of the School of Forestry, Duke University, Durham, North Carolina. When the blank has been filled out by the applicant it should be returned to the above address, and *must be accompanied by an official transcript of record* showing college or university credits. The application and transcript must be filed not later than March 15 for the following academic year. In case vacancies occur, applications submitted on a later date will be considered.

## REQUIREMENTS FOR ADMISSION TO THE SCHOOL OF FORESTRY

The following general requirements of the School of Forestry apply to candidates for the Master of Forestry degree:

Admission to the School of Forestry presupposes that the applicant is either a graduate of a scientific school, college, or university of high standing, but without professional training in forestry; or that he is a graduate of a professional school of forestry of recognized standing. He will present not less than four years of credit of collegiate grade, with at least as many quality points as hours.<sup>1</sup>

An applicant with no professional training in forestry will present a certified transcript of his academic record showing that he has had conferred upon him a degree in arts, science, or engineering; and that he has satisfactorily completed undergraduate work in minimum amount as follows:

One year of botany, including the morphology, physiology, and identification of plants.

One year each of English and of chemistry.

One course each in physics and in the principles of economics.

Mathematics, through college algebra and trigonometry.

It is urged that an applicant without professional training in forestry present additional credits in the above subjects and in one or more of the following subjects: Soils, geology, mineralogy, petrology, climatology, surveying, languages (particularly German and French), sociology, political science, philosophy, psychology, and zoology.

An applicant who is a graduate of a professional school of forestry of recognized standing will present a certified transcript of scholastic record showing the award of a degree. Before registering for the first semester of residence, he will be required to take a comprehensive examination in the following branches of forestry: silvics, silviculture, forest mensuration, forest management, utilization, wood anatomy and properties, forest economics, and forest policy. The purpose of this examination is to aid in determining the needs of individual students.

Students must make application for admission in advance of the opening of the school year. Those students entering without acceptable courses in plane surveying, forest surveying, and forest mensuration must take the twelve weeks of work in these subjects in the Summer School, and are required to submit their applications prior to May 1. Students entering with advanced standing in surveying and forest mensuration should make application before September 1. Application blanks will be sent upon request made to the Dean of the School of Forestry.

<sup>1</sup> Grades for each hour of college credit and also for credit earned in the School of Forestry are valued in quality points as follows: A, 3 points; B, 2 points; C, 1 point; D, no points; and F, no credit and -1 point.

## REQUIREMENTS FOR THE DEGREE OF MASTER OF FORESTRY

The degree of Master of Forestry (M.F.) is conferred upon students who have satisfactorily completed two years of study in technical forestry and one term of twelve weeks' work in plane surveying, forest surveying, and forest mensuration in the Summer School. In addition to the Summer School work a total of not less than sixty semester hours' credit is required for the M. F. degree, of which at least fifty-five shall be obtained in the School of Forestry. No student may take less than fifteen or more than eighteen hours in any one semester without special permission of the School of Forestry Faculty. The following work will be required of all candidates for the M. F. degree:

### SUMMER SCHOOL

	S.H.
Plane Surveying (C. E. S110).....	3
Forest Surveying (F. S150).....	5
Forest Mensuration (F. S151).....	4

### FIRST YEAR

<i>First Semester</i>	S.H.	<i>Second Semester</i>	S.H.
Lumbering (F. 211).....	3	Forest Products (F. 212).....	3
Sampling Methods (F. 251).....	2	Forest Pathology (F. 224).....	4
Dendrology (F. 253).....	3	Forest Entomology (F. 232).....	3
Wood Anatomy & Properties (F. 259).....	3	Forest Mensuration (F. 252).....	2
Forest Soils (F. 261).....	3	Silvics (F. 264).....	3
Forest Protection (F. 273).....	3	Elective .....	

### SECOND YEAR

Silviculture (F. 265).....	5	Forest Economics (F. 278).....	3
Forest Policy (F. 277).....	2	Forest Valuation (F. 282).....	3
Forest Management (F. 281).....	4	Seminar (F. 292).....	2
Thesis .....	2	Thesis .....	2
Elective .....		Elective .....	

Each candidate is required to file in the office of the Dean of the School of Forestry on or before May 15 three copies of a thesis, type-written and bound in accordance with regulations set forth by the Faculty. The thesis shall be based upon an original study made in the field, laboratory, or library.

Work of equivalent grade done in residence at recognized schools of forestry may, with the approval of the Faculty, be accepted as credit toward the M. F. degree. A minimum of one year's residence is required at Duke University. Students who have had satisfactory undergraduate training in forestry may, with the approval of the Faculty, elect to devote the major portion of their time to research under the supervision of one or more members of the Faculty and prepare a more comprehensive thesis than is required of students entering the School without previous work in forestry.

## FORESTRY IN THE GRADUATE SCHOOL

Graduate work toward the Master of Arts and Doctor of Philosophy degrees is available in the more scientific branches of forestry to adequately prepared students at Duke University. This work is given through the Division of Forestry of the Graduate School of Arts and Sciences by certain members of the School of Forestry Faculty.

### REQUIREMENTS FOR ADMISSION

#### GENERAL REQUIREMENTS

Students who have received a Bachelor's degree upon the completion of a four-year undergraduate curriculum at a college of sufficiently high standing may be admitted to certain courses in the Graduate School of Arts and Sciences. The department or division concerned will determine whether a student is prepared to take any particular course. *Admission to graduate courses does not necessarily imply admission to candidacy for a degree.* A candidate for admission as a graduate student should present satisfactory evidence that he has received a Bachelor's degree from a college or university which is a member of the Association of Colleges and Secondary Schools of the Southern States or of one of the similar associations in other sections of the country (provided that the degree must have been conferred after the admission of the college or university to membership in said association); or from a North Carolina college whose Bachelor of Arts' or other Bachelor's degree is accepted by the State Department of Education as the basis for issuing the high-school or primary certificate of Class A. A degree from an institution outside of the state of North Carolina, not provided for above, may be accepted when an investigation in the individual case shows that qualifications are satisfactory.

No college or university work taken before the Bachelor's degree is conferred, or fully earned, may be credited toward an advanced degree except under the following circumstances: A student of Duke University who lacks at the beginning of a term not more than nine semester-hours of fulfilling the requirements for the Bachelor's degree may obtain permission from the Dean of the Graduate School to take during the term graduate courses sufficient to bring his total work to fifteen hours a week. Such graduate courses will be credited toward the degree of Master of Arts.

No graduate student may register in one academic year for more than twenty-four semester-hours of work and a thesis.

#### SPECIAL REQUIREMENTS IN FORESTRY

In addition to the above general requirements, the following special conditions will influence the acceptance of students for graduate study in



forestry. The student must have received a degree from a professional school of forestry of recognized standing or from an approved college or university. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them.

The Forestry Staff will determine whether a student is qualified to pursue graduate study in any of the special fields of forestry in which work is available.

## GENERAL REQUIREMENTS FOR DEGREES

The following general requirements of the Graduate School apply to candidates for the Master of Arts and Doctor of Philosophy degrees:

### ADMISSION TO CANDIDACY FOR A DEGREE

A graduate student who desires to be accepted as a candidate for a degree should file with the Dean of the Graduate School an official transcript of the record of his undergraduate work and also of any graduate courses he may have completed. He should also confer with the chairman of the department in which he desires to take his major work. Applications for admission to candidacy for the degree of Master of Arts should be made at the beginning of the first year of graduate work, and for the degree of Doctor of Philosophy early in the second year of graduate work. Before receiving recognition as a candidate for a degree, the student must satisfy both the general requirements of the Graduate School and the special requirements of the department in which he is taking his major work.

### THE DEGREE OF MASTER OF ARTS

Candidates for the degree of Master of Arts are required to have a reading knowledge of two foreign languages, evidenced by examination or by credit obtained for at least six semester-hours of college work in each. If this requirement has not been satisfied before admission to candidacy for the degree, the required foreign language work must be completed before the degree is conferred and will not be counted for credit toward the degree. The two foreign languages offered must be acceptable to the department in which the candidate is taking his major work. Twice a year at stated times the language examinations will occur. The French examinations will be given the first week in November and the first week in March, while the German examinations will be given the second week in November and the second week in March.

To obtain the degree of Master of Arts a candidate must complete satisfactorily twenty-four semester-hours of graduate courses and a thesis. The credit for the thesis is six semester-hours. Each candidate for the degree must select a major subject in which the minimum requirement is twelve semester-hours and the thesis. [Before selecting his major in a department, a student must have completed a minimum of twelve semester-hours of approved *preliminary* courses in that department and twelve additional semester-hours either in that department or in related work.] A candidate must take six semester-hours of graduate work in a minor subject approved by the major department, and the remaining six semester-hours in the major or minor subjects or in a department approved by the major department and by the Graduate Council. No undergraduate course may be credited toward the degree of Master of Arts.

### MINIMUM RESIDENCE REQUIREMENT

The minimum residence requirement of candidates for the Master's degree is one academic year. Often a longer period of residence will prove necessary. In the case of graduate students who take all the work for the Master's degree in the Summer School, the minimum residence requirement is five summer terms of six weeks each. All the work offered for the Master's degree must be completed within a period of six years.

### THESIS FOR THE MASTER'S DEGREE

The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts must be approved by the department or departments concerned and filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred.

Three (or, at the discretion of the department, four) bound typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 15 of the year in which the degree is conferred. The thesis is passed upon and accepted or rejected by an examining committee of three members of the Faculty. Two of the copies, the original and a carbon copy, are placed in the University Library. Each candidate is required to appear before the committee for a final examination. The oral portion of the examination will be approximately one and one-half hours in length and will be on the thesis and its related field; the length of the examination to be determined by the department with due consideration to the needs of the candidate and the subject matter of the thesis. The chairman of the committee will inform the other members of the committee of the character and scope of the examination.

### CREDIT TOWARD THE MASTER'S DEGREE FOR WORK DONE ELSEWHERE

No credit toward advanced degrees is given for university extension or correspondence courses.

Not more than six semester-hours of credit toward the Master's degree may be given to graduates of Duke University or of other approved colleges or universities for acceptable graduate courses or research completed elsewhere. Such credit shall not shorten the minimum period of residence required at Duke University.

### THE DEGREE OF DOCTOR OF PHILOSOPHY

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult, or enter into correspondence with, the Dean of the Graduate School or the chairman of the department concerned. He will then be advised as to the possibility of obtaining the necessary instruction and supervision of research in the desired field.

The Council on Graduate Instruction has adopted the following regulations governing the conferring of the degree of Doctor of Philosophy:

1. *The Degree.* The degree of Doctor of Philosophy is a research degree; it is not based merely upon the completion of a prescribed period of study or upon the obtaining of credit for a given number of courses. The granting of the degree will be based primarily upon evidence of high attainments in a special field of knowledge and upon the production of a thesis embodying the results of original research.

2. *Residence Requirements.* The normal period of resident graduate study, after the general requirements of admission to the Graduate School have been satisfied, is not less than three academic years. The candidate will be required to spend at least either the last year in actual residence at Duke University,



or the first two years. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may expect to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake. Credit for one year of work done in summer school sessions may be given with the approval of the Graduate Council and of the department in which the student takes his major work. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

3. *Application for Candidacy for the Ph.D. Degree* A student desiring to become a candidate for the Ph.D. degree is ordinarily required to file with the Dean of the Graduate School, not later than the beginning of the second year of graduate work, a formal application indicating in what department and under what professor he proposes to carry on research. A committee will then be appointed to supervise the student's work, with the professor in charge of his research as chairman. If and when the committee finds that the preliminary requirements of the major department have been satisfied, the chairman of the committee shall report the fact in writing to the Dean of the Graduate School. The student's program of study will be arranged after consultation with this committee and must obtain its approval and that of the Graduate Council. In the case of students who come to Duke University for only the last year of graduate work, and in special cases approved by the Graduate Council, the application for recognition as a candidate for the Ph.D. degree may be filed later than provided above, but not later than October 15 of the academic year in which it is desired that the degree be conferred.

4. *Preliminary Examination.* Toward the end of the second full year of graduate work (or in special cases at the beginning of the third year), a preliminary examination of each candidate will be held covering the general field of his major subject. This examination will be conducted by the committee in charge of the student's work and will be either oral or written, or both, as the committee may determine. A student who passes this examination will be recognized as a candidate for the Ph.D. degree. At the discretion of a candidate's committee, the examination on his minor subject or subjects may be held at the time of his preliminary examination instead of at the time of his final examination.

5. *Program of Study.* The program of study of an applicant for the Ph.D. degree is subject to the approval of the Graduate Council and of the committee provided for in Section 3 above. The student must select a major field and one or two minor related fields. When a department offers instruction in a sufficient variety of subjects and the needs of the individual students seem to require it, the Graduate Council may permit a major and minor to be taken in the same department.

6. *Foreign Language Requirements.* A reading knowledge of French and German will ordinarily be required. A substitution for one of these languages may be made, however, by the consent of the Graduate Council and of the department in which a student takes his major work. The student will be examined on one of the foreign languages at the beginning of his second year of graduate work, and should qualify in both by the end of the second year of his graduate work. The department in which he takes his major work may indicate preference as to the language in which the student shall first be examined. Foreign language examinations will be conducted by the appropriate language department in conjunction with the department in which the student has his major field of work.<sup>1</sup>

7. *Thesis.* The thesis for the Ph.D. degree must be a contribution to knowledge. The subject of the thesis must be filed with the Dean of the Graduate School on or before October 15 of the academic year in which the candidate desires to take the final examinations for his degree. The subject must receive the written approval of the chairman of the department in which

<sup>1</sup> See University Calendar, pp. 5 and 6.

the candidate has his major field of work and also of the professor under whom the thesis is being written. The thesis must be completed to the satisfaction of the professor under whom it is written, and four typewritten copies in approved form must be deposited with the Dean of the Graduate School on or before May 1, if the student desires to be examined on the thesis in the same academic year. Two of the copies, the original and a carbon copy, are placed in the University Library.

The title-page must be approved by the major department and by the Dean of the Graduate School.

The candidate's thesis must be published either in its original form or in a modified form approved by the Dean of the Graduate School and the committee in charge of the candidate's work. Copies of the published thesis should be deposited in the Graduate School Office as provided by regulations of the Graduate Council. The degree will not be conferred until publication of the thesis, in approved form, within three years, has been guaranteed in a way satisfactory to the Dean of the Graduate School and the professor under whom the thesis was written.

8. *Final Examination.* The final examination on the thesis and on the subject matter of the major and minor fields will be oral. The examination on both thesis and major and minor work will be held at the same time unless otherwise arranged by special permission of the Graduate Council.

### SPECIAL REQUIREMENTS FOR DEGREES IN FORESTRY

The Master of Arts and Doctor of Philosophy degrees are attained through scientific work rather than technical or professional training in forestry. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, silvics, forest soils, forest mensuration, forest management, and forest economics, except that a major cannot be taken in forest management. A student upon registration chooses a field of study which may lie in two or more departments. The members of the Graduate School Faculty best qualified in that field are named as the student's advisory committee, regardless of the department of which they are members. This committee will advise the student in the planning and conduct of his work and will evaluate it when completed.

A reading knowledge of French and German must be acquired early in the course of graduate study in forestry because much of the forestry literature of the world is written in or has summaries in these languages. For the Ph.D. degree the language requirement must be met before the preliminary examination is taken and usually before the preparation of the thesis is begun.

The length of time required for a student to obtain the Master of Arts and Doctor of Philosophy degrees in forestry is determined by the character of his previous work and by the quality of his work in the Graduate School. Upon the recommendation of the Forestry Staff and with the approval of the Council on Graduate Instruction, work of equal grade done in residence at another college or university, or at a research station or institute not connected with a college or university, may be accepted toward a Ph.D. degree, but at least the last year of the first two years of graduate study must be spent in actual residence at Duke University. Only in connection with the preparation of the thesis will work

be accepted that has been done elsewhere than in residence at a college, university, or research station.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

The field of study may include advanced work in allied subjects as well as advanced work in forestry. However, the student should have covered most of the basic subjects prior to entering the Graduate School. The required advanced work will depend upon the student's previous training and the special field of study selected. Before beginning his work the student must obtain approval of his proposed program of study, including the plans for the research for his thesis. Courses of study must be correlated with each other and with the thesis research.

## COURSES AND SUBJECTS OF INSTRUCTION

### IN THE SUMMER SCHOOL

**S150. Forest Surveying.**—Application of plane surveying to forest problems; practice in making boundary and topographic surveys of forested tracts, using both intensive and extensive methods. Work includes use of transit, level, traverse board, topographic abney and slope tape, and aneroid barometer. Prerequisites: Civil Engineering S110, Plane Surveying, or equivalent. *Five weeks, eight hours a day, beginning June 25.* 5 s.h. (w)

ASSOCIATE PROFESSOR MAUGHAN

**S151. Forest Mensuration.**—Field studies in methods of measuring content and growth of trees and forest stands; practice in timber estimating, log scaling, use of mensurational instruments, and collection of basic data. *Four weeks, eight hours a day, beginning August 1.* 4 s.h. (w)

PROFESSOR SCHUMACHER

### FOR SENIORS AND GRADUATES

**211. Logging and Lumber Manufacture.**—Methods of harvesting timber, transporting logs, and manufacturing lumber, with emphasis on costs and economic application under different forest conditions. 3 s.h. (w)

Mr. \_\_\_\_\_

**212. Forest Products.**—Preparation, manufacture, and use of tree products in forms other than lumber, with emphasis on methods, costs, and application under different forest conditions. 3 s.h. (w)

Mr. \_\_\_\_\_

**213. Seasoning and Preservation of Wood.**—Methods of handling lumber and other forest products for natural and artificial seasoning; methods and materials used in treating wood to increase its durability. Prerequisite: Forestry 259 or equivalent. 3 s.h. (w)

Mr. \_\_\_\_\_

**224. Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h. (w)

PROFESSOR WOLF

**232. Forest Entomology.**—Morphology, general classification, life histories, and control of insects injurious to forest trees, logs, and lumber. 3 s.h. (w)

Mr. \_\_\_\_\_

[Not offered in 1938-1939]

**235. Forest Game Management.**—Characteristics and life histories of forest animals; interrelationship between animals and forests; management of forest animals for revenue; control of noxious species. 3 s.h. (w)

Mr. \_\_\_\_\_

**251. Sampling Methods in Forestry.**—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. 2 s.h. (w)

PROFESSOR SCHUMACHER

**252. Forest Mensuration.**—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. 2 s.h. (w)

PROFESSOR SCHUMACHER



**253. Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. 3 s.h. (w)

ASSOCIATE PROFESSOR HARRAR

**257. Design of Forestry Experiments and Analysis of Data.**—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific method in forest research. 5 s.h. (w)

PROFESSOR SCHUMACHER

**259. Wood Anatomy and Properties.**—Anatomical, chemical, and non-mechanical physical properties of wood; macroscopic and microscopic identification of more important woods of the United States. Prerequisites: One year of Botany and Chemistry 1 and 2, or equivalents. 3 s.h. (w)

ASSOCIATE PROFESSOR HARRAR

**260. Timber Mechanics.**—Comprehensive study of mechanical properties of wood and factors affecting its strength; strength-moisture relationships; standard methods of timber testing and application of strength data in development of working stresses; use of graphic statics in analysis of stress in wooden structures. Prerequisites: Physics 1 and Forestry 259, or equivalents. 3 s.h. (w)

ASSOCIATE PROFESSOR HARRAR

**261. Forest Soils.**—Origin, development, and classification of soils with special emphasis on those developed in climates supporting forests; morphological, physical, and chemical properties of soils in relation to growth of trees; field identification, field sampling, laboratory analysis, and interpretation of field and laboratory observations; interrelationships of soil and forest cover. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents. Physical geology and analytical chemistry are also desirable. 3 s.h. (w)

ASSISTANT PROFESSOR COILE

**264. Silvics.**—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: Botany 151 and 156, and Forestry 253 and 261, or equivalents. 3 s.h. (w)

PROFESSOR KORSTIAN

**265. Theory and Practice of Silviculture.**—Principles governing natural regeneration and treatment of forest stands and their application to main commercial forest species, types, and regions of temperate North America; reproduction methods, intermediate cuttings, cultural operations, and silvicultural plans. Field practice includes marking timber for various kinds of cuttings, cultural treatments, preparation of plans for silvicultural treatment of forests, and study of intensively managed forests. Prerequisite: Forestry 264 or equivalent. 5 s.h. (w)

PROFESSOR KORSTIAN

**266. Forest Seeding and Planting.**—Place of artificial regeneration in practice of forestry; reforestation surveys and plans; collection, extraction, cleaning, testing, and storage of forest tree seeds; direct seeding; nursery practice; forest planting. 2 s.h. (w)

PROFESSOR KORSTIAN

**273. Forest Protection.**—Fundamental principles of forest protection; protection against atmospheric agencies, injurious plants, insects, domestic animals, and wild life; causes of forest fires and their prevention; suppression activities; fire suppression; fire control costs and standards; fire plans. 3 s.h. (w)

ASSOCIATE PROFESSOR THOMSON

**277. Forest Policy.**—Critical study of forestry movement and development of a forestry policy, particularly in United States; brief résumé of forestry in important foreign countries; public land laws of United States; development of Federal and State forestry; forestry laws. **2 s.h. (w)**

ASSOCIATE PROFESSOR THOMSON

**278. Economics of Forestry.**—Principles of forest economics. Economic and social values of forests; forest resources and wood requirements; economics of wood production and consumption; prices of forest products; forestry and public finance; forestry and land use; forestry credit; forest fire insurance; forestry as a private business enterprise. Prerequisite: at least one course in the principles of economics. **3 s.h. (w)**

ASSOCIATE PROFESSOR THOMSON

**281. Forest Management.**—Principles of organizing forest properties for systematic management including surveys, inventories, subdivision, and preparation of management plans for control of operations; principles of forest regulation, actual and normal forests, rotations, cutting cycles, and methods of regulating the cut for sustained yield. Prerequisites: Forestry S150, 251, and 252, or equivalents. **4 s.h. (w)**

ASSOCIATE PROFESSOR MAUGHAN

**282. Forest Valuation.**—Principles involved in appraising value of forests as business enterprises; valuation of land and timber, soil rent and forest rent theories, cost values, market values and capital values, profit, and rate earned; appraisal of stumpage values and damage appraisals; financial aspects of sustained yield management compared with destructive logging. Prerequisite: Forestry 281, or equivalent. **3 s.h. (w)**

ASSOCIATE PROFESSOR MAUGHAN

**284. Forest Improvements.**—Principles involved in location, design, and construction of improvements required for administration of forest properties, such as forest roads, trails, bridges, lookout towers, metallic and grounded circuit telephone lines, camps and recreational facilities, and forest buildings; priorities and cost estimates. Lectures, field work, and inspection trips. Prerequisite: Forestry S150, or equivalent. **3 s.h. (w)**

ASSOCIATE PROFESSOR MAUGHAN

**292. Seminar.**—Interrelation of various branches of forestry in their application to forestry problems; assigned topics with special reference to current forestry activities. **2 s.h. (w)**

THE STAFF

#### FOR GRADUATES

**323-324. Advanced Forest Pathology.**—Advanced study and research on life histories and control of diseases of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and forest pathology. Credits to be arranged.

PROFESSOR WOLF

**351-352. Advanced Physiology of Forest Trees.**—Advanced study and research on problems in physiology of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged.

ASSISTANT PROFESSOR KRAMER

**357-358. Research in Forestry.**—Credits to be arranged. Students who have had adequate training may do research under direction of members of the Faculty in the following branches of forestry:

a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents.

PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.

ASSISTANT PROFESSOR COILE



- c. **Silviculture.**—Prerequisite: Forestry 265 or equivalent.  
PROFESSOR KORSTIAN
- d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent.  
ASSOCIATE PROFESSOR MAUGHAN
- e. **Forest Economics.**—Prerequisites: Forestry 278 and 282 or equivalents.  
ASSOCIATE PROFESSOR THOMSON
- f. **Wood Anatomy and Properties.**—Prerequisite: Forestry 259 and 260, or equivalents.  
ASSOCIATE PROFESSOR HARRAR
- g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents.  
PROFESSOR SCHUMACHER
- h. **Forest Entomology.**—Prerequisite: Forestry 232 or equivalent.  
[Not offered in 1938-1939] MR. \_\_\_\_\_
- i. **Forest Products.**—Prerequisites: Forestry 211 and 212 or equivalents.  
MR. \_\_\_\_\_

## FEES AND EXPENSES

The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

### GENERAL FEES

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage fee, payable annually at the time of first registration.....	1.00
Medical fee, per semester.....	5.00
Library fee, per semester.....	5.00
Commencement fee, payable once by graduate students in the last semester before a degree is conferred.....	3.00
Diploma fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00

For further information concerning room-rent, see below.

### SPECIAL FEES

Graduate students in the sciences are required to pay the special laboratory fees for courses as fixed by the various departments. An administrative fee is charged in connection with special research in the summer under direction of a member of the Faculty. Special laboratory and materials fees in forestry are as follows:

Forestry 224, 253, 259, 260, 264, 357a, and 358a.....	\$2.50
Forestry 261, 351, 352, 357b, and 358b.....	5.00

### TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one transcript of his record. A charge of one dollar is made for each additional copy.

### PAYMENTS TO FELLOWS AND SCHOLARS

Payments by the University of stipends to fellows and scholars are made in four installments, on November 25, January 25, March 25, and May 25. Fellows and scholars are required to pay the regular tuition fee and such additional fees as are ordinarily required of graduate students.

**ROOMS AND CONDITIONS OF RENTING THEM****ROOM RENT FOR MEN OF DUKE UNIVERSITY**

West Campus, per semester.....	\$50.00, \$62.50, and \$75.00
East Campus, per semester.....	\$30.00 and \$50.00

All graduate courses are given on the West Campus.

Rooms are reserved only for students who have been officially accepted by the University. They are rented for no shorter period than one semester. The occupancy of a room for a period of less than one semester will cost the student \$1.00 each day unless the occupant makes the necessary arrangements with the Director of the Business Division before occupying the room. A room deposit of \$5.00 is required of each applicant for admission. The fee is deducted from the room charges at the time of registration for the full semester. The reservation fee will be refunded to any applicant not accepted by the University provided the official receipt for the fee, given to all paying it, is presented either in person or by letter to the Treasurer's Office, but students who make application and are accepted will not be entitled to have the reservation fee refunded unless the request is made on or before August 1.

A resident student who wishes to retain his room for the succeeding year must first pay a reservation fee of \$5.00 to the Treasurer's Office and then notify the office of the Director of the Business Division on or before May 15. All rooms which have not been signed for on or before May 15 will be considered vacant for the succeeding year. When a room is once engaged by a student, no change will be permitted except with the consent of the Director of the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. The use of a room for merchandising of any kind is strictly forbidden.

The University does not assume the responsibility of selecting and assigning roommates, though it will gladly render any assistance possible in the matter.

**DORMITORIES FOR MEN**

On the West Campus there are three groups of dormitories, Craven, Crowell, and Kilgo. Each group forms a quadrangle enclosing a court. Certain sections are reserved especially for the use of graduate students.

**BOARDING ACCOMMODATIONS**

*Trinity College, West Campus.*—Beginning with the academic year 1930-31 the University opened its dining hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. It is the policy of the University to furnish board to its students at actual cost. Charges for board will not exceed \$25.00 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barbershop, and all publication staff offices.

In addition to the Union dining halls a coffee shop is operated for the convenience of students and visitors.

#### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a graduate student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum cost, while all charges made by the University have been kept low. Incidental expenses naturally depend upon the tastes and habits of the individual. The following table gives the necessary college expenses for one year:

	<i>Low</i>	<i>Moderate</i>	<i>Liberal</i>
Tuition .....	\$200.00	\$200.00	\$200.00
Matriculation .....	50.00	50.00	50.00
Room-rent .....	60.00	100.00	150.00
Board .....	225.00	225.00	225.00
Laundry .....	20.00	25.00	30.00
Books .....	22.50	30.00	45.00
Library Fee .....	10.00	10.00	10.00
Athletic Fee .....	10.00	10.00	10.00
Damage Fee .....	1.00	1.00	1.00
Medical Fee .....	10.00	10.00	10.00
<i>Total</i> .....	<u>\$608.50</u>	<u>\$661.00</u>	<u>\$731.00</u>













VOLUME 10

February, 1938

NUMBER 2-B

# BULLETIN OF DUKE UNIVERSITY

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*Engineering*



1937-1938

ANNOUNCEMENTS FOR 1938-1939

PUBLISHED BY THE UNIVERSITY

DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF UNDERGRADUATE INSTRUCTION, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES, apply to *The Dean of the Graduate School*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF LAW, apply to *The Dean of the School of Law*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF MEDICINE, apply to *The Dean of the School of Medicine*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF NURSING, apply to *The Dean of the School of Nursing*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF RELIGION, apply to *The Registrar of the School of Religion*, Duke University, Durham, N. C.

For BULLETIN OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF FORESTRY, apply to *The Dean of the School of Forestry*, Duke University, Durham, N. C.

For BULLETIN OF THE SUMMER SCHOOLS, apply to *The Director of the Summer Schools*, Duke University, Durham, N. C.

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BULLETIN  
OF  
DUKE UNIVERSITY



ENGINEERING

1937-1938

ANNOUNCEMENTS FOR 1938-1939

DURHAM, NORTH CAROLINA

1938



## TABLE OF CONTENTS

	PAGE
UNIVERSITY CALENDAR .....	5
ADMINISTRATIVE OFFICERS .....	7
EXECUTIVE COMMITTEE .....	7
INSTRUCTIONAL STAFF .....	7
COUNCIL ON ENGINEERING INSTRUCTION .....	8
ENGINEERING COURSES OFFERED .....	9
GENERAL REGULATIONS .....	14
Admission to Engineering Division .....	14
Admission by Certificate .....	15
Admission by Examination .....	16
Admission to Advanced Standing .....	16
Special Students .....	17
REQUIREMENTS FOR DEGREE .....	18
COURSES OF INSTRUCTION .....	21
FEES AND EXPENSES .....	29



## UNIVERSITY CALENDAR

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1938

- June 13. Monday, 9:00 A.M.—Registration of students for Summer School, first term.
- June 13. Monday, 2:00 P.M.—Instruction begins for Summer School, first term.
- July 4. Monday—Independence Day: a holiday.
- July 22-23. Friday, Saturday—Final examinations for Summer School, first term.
- July 25. Monday, 9:00 A.M.—Registration of students for Summer School, second term.
- July 25. Monday, 2:00 P.M.—Instruction begins for Summer School, second term.
- Sept. 2-3. Friday, Saturday—Final examinations for Summer School, second term.
- Sept. 15. Thursday, 9:00 A.M.—Dormitories open to Freshmen.
- Sept. 15. Thursday, 8:00 P.M.—Assembly for all entering Freshmen; Freshmen Orientation Program begins.
- Sept. 20. Tuesday—Freshman instruction begins.
- Sept. 20. Tuesday—Registration and matriculation of new students with advanced standing.
- Sept. 21. Wednesday, 11:00 A.M.—Formal opening of the College; registration of matriculated students.
- Sept. 22. Thursday—Instruction for Sophomores, Juniors, and Seniors begins.
- Sept. 22-24. Thursday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-4:00 P.M.; Friday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-5:00 P.M.; Saturday, 9:00 A.M.-1:00 P.M.—Registration of graduate students.
- Nov. 11. Friday—Armistice Day.
- Nov. 24. Thursday—Thanksgiving Day: a holiday.
- Dec. 10. Saturday—Duke University Day.
- Dec. 20. Tuesday, 1:00 P.M.—Christmas recess begins.

1939

- Jan. 3. Tuesday, 8:00 A.M.—Instruction is resumed.
- Jan. 20. Friday—Mid-year examinations begin.
- Jan. 31. Tuesday—Last day for matriculation for second semester.
- Feb. 1. Wednesday—Second semester begins.
- Feb. 22. Wednesday—Washington's Birthday.

1939

- March 29. Wednesday, 1:00 P.M.—Spring vacation begins.
- April 5. Wednesday, 8:00 A.M.—Instruction is resumed.
- April 15. Saturday—Last day for submitting orations for Wiley Gray Contest.
- April 29. Saturday—Last day for selection of courses for ensuing year.
- May 13. Saturday—Earliest date for beginning of Honors examinations.
- May 23. Tuesday—Final examinations begin.
- June 3. Saturday—Commencement opens: Senior Class Day; meeting of the Board of Trustees.
- June 4. Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 5. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.



## ADMINISTRATIVE OFFICERS

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WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., Ed.D., LL.D. <i>President</i>	West Campus
ROBERT LEE FLOWERS, A.M., LL.D. <i>Vice-President in the Business Division, Secretary and Treasurer</i>	West Campus
WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D. <i>Vice-President in the Educational Division and Dean of the University</i>	West Campus
HERBERT JAMES HERRING, A.B., A.M. <i>Dean of Men</i>	Myrtle Drive
ALAN KREBS MANCHESTER, A.B., A.M., Ph.D. <i>Dean of Freshmen</i>	Myrtle Drive
WILLIAM ALLEN TYREE, A.B. <i>Director in the Business Division</i>	610 Buchanan Road
JAMES WESLEY WILLIAMS, A.B., B.S. in C.E. <i>Assistant to the Dean of Men, Housemaster</i>	Southgate Dormitory
WILLIAM HOLLAND HALL, A.B., A.M., B.C.E., M.S.C.E. <i>Director, Division of Engineering</i>	11 Beverly Apartments

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## EXECUTIVE COMMITTEE, DIVISION OF ENGINEERING

W. H. HALL, <i>Chairman</i>	W. J. SEELEY
W. A. TYREE, <i>Secretary</i>	R. S. WILBUR
H. C. BIRD	

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## INSTRUCTIONAL STAFF

HAROLD CRUSIUS BIRD, Ph.B., C.E. <i>Professor of Civil Engineering, Chairman of Department of Civil Engineering</i>	1209 Virginia Avenue
WILLIAM HOLLAND HALL, A.B., A.M., B.C.E., M.S.C.E. <i>Professor of Engineering</i>	11 Beverly Apartments
WALTER JAMES SEELEY, E.E., M.S. <i>Professor of Electrical Engineering, Chairman of Department of Electrical Engineering</i>	1005 Urban Avenue
RALPH SYDNEY WILBUR, B.S. in M.E., M.E. <i>Professor of Mechanical Engineering, Chairman of Department of Mechanical Engineering</i>	1317 Arnette Avenue
ROBERT G. CHAPMAN, B.S. in M.E., M.M.E. <i>Instructor in Mechanical Engineering</i>	1007 W. Trinity Avenue

OTTO MEIER, JR., B.S. in E.E., E.E. <i>Instructor in Electrical Engineering</i>	903 Sixth Street
RUSSELL RANSON, B.S. in E.E. <i>Instructor in Electrical Engineering</i>	2 Bickett Apartments
FREDERICK JEROME REED, M.E., M.S. <i>Instructor in Mechanical Engineering</i>	2203 Englewood Avenue
JAMES WESLEY WILLIAMS, A.B., B.S. in C.E. <i>Instructor in Civil Engineering</i>	Southgate Dormitory
WILLIAM WHITFIELD ELLIOTT, B.A., M.A., Ph.D. <i>Professor of Mathematics</i>	1404 Arnette Avenue
CHARLES CLEVELAND HATLEY, A.B., A.M., Ph.D. <i>Professor of Physics</i>	708 Buchanan Road
DOUGLASS HILL, A.B., M.A., Ph.D. <i>Instructor in Chemistry</i>	Woodridge Drive, Rockwood
ARCHIBALD CURRIE JORDAN, A.B., A.M. <i>Assistant Professor of English</i>	Pinecrest Road
FRANK KIRBY MITCHELL, A.B., A.M. <i>Associate Professor of English</i>	East Campus
JAMES CARLISLE MOUZON, B.A., Ph.D. <i>Assistant Professor of Physics</i>	Pinecrest Road
WALTER MCKINLEY NIELSEN, B.S., Ph.D. <i>Professor of Physics</i>	Pinecrest Road
KARL BACHMAN PATTERSON, A.B., A.M. <i>Assistant Professor of Mathematics</i>	1024 Monmouth Avenue
JOHN HERMAN SHIELDS, A.B., A.M. <i>Assistant Professor of Accounting</i>	2 Eloise Apartments
JOSEPH JOHN SPENGLER, A.B., M.A., Ph.D. <i>Professor of Economics</i>	1601 Lakewood Avenue
ROBERT NORTH WILSON, A.B., M.S. <i>Professor of Chemistry</i>	822 Third Street
ROBERT RENBERT WILSON, A.B., A.M., Ph.D. <i>Professor of Political Science</i>	9 Franklin Court Apartments
FREDERICK ADOLPHUS WOLF, A.B., A.M., Ph.D. <i>Professor of Botany</i>	924 Urban Avenue
Assisted by members of General Faculty listed in <i>General Bulletin</i> .	

### COUNCIL ON ENGINEERING INSTRUCTION

President W. P. FEW  
 Vice-President W. H. WANNAMAKER  
 W. H. HALL, Divisional Chairman  
 H. C. BIRD, Civil Engineering  
 W. J. SEELEY, Electrical Engineering  
 R. S. WILBUR, Mechanical Engineering

J. C. MOUZON, Physics  
 W. C. VOSBURGH, Chemistry  
 C. B. HOOVER, Economics  
 E. E. WARD, English  
 K. B. PATTERSON, Mathematics  
 W. A. TYREE, Secretary

## ENGINEERING COURSES OFFERED

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### GENERAL STATEMENT

Duke University, through the Division of Engineering, offers standard four-year courses in civil, electrical, and mechanical engineering. These departments occupy Asbury and Bivins Halls and Branson Laboratory located at the northwest corner of the East Campus. The James H. Southgate Memorial Building, set aside for the housing of engineering students, contains social rooms, recitation rooms, gymnasium, dining room, and kitchen, as well as dormitory facilities. Meals are provided in this building at the same rate which prevails in the other University dining halls.

**CURRICULA:** The courses of study in the several branches of engineering are set up to conform as closely as possible to the findings of the Society for the Promotion of Engineering Education. Fundamental training is given in English, mathematics, and the sciences, as well as in the technical subjects leading to professional work in civil, electrical, and mechanical engineering. Election of courses in the Department of Economics and Business Administration is encouraged in the belief that the combining of such courses with the rigorous engineering program affords excellent preparation for the types of commercial or industrial activities in which engineering training is most valuable.

**FACULTY:** The members of the Instructional Staff have been chosen particularly for their ability to teach. Instruction is given in small sections, insuring personal attention. The laboratory is used to supplement the classroom, and at present the same instructor carries his class through both the classroom and laboratory work. This is made possible only where classes are limited in size.

**STUDENT ACTIVITIES:** Three national engineering societies, the American Society of Civil Engineers, the American Society of Mechanical Engineers, and the American Institute of Electrical Engineers, are represented by student chapters operating under national charters. An honorary engineering fraternity, Delta Epsilon Sigma, was organized several years ago for the purpose of stimulating good scholarship among the engineering students. All four of these organizations afford unusual opportunities for the members to present papers and to conduct discussions in certain phases of engineering not covered in the classroom. Engineering students are in every sense a part of the student body of Duke University, enjoying the general advantages of the University and being subject to the general rules and regulations.

**HISTORY:** The teaching of engineering is not new at Duke University. From 1887 to 1893 formal courses in civil and mining engineering leading to the Bachelor of Science degree were offered by Trinity College. After their discontinuance in 1893, the teaching of engineering subjects

was begun again in 1903 and has continued uninterruptedly since that time. At the present there are three departments offering courses in civil, electrical, and mechanical engineering leading to the degree Bachelor of Science in these branches of engineering. Grouped together under the direction of the Chairman and the Executive Committee, these three departments constitute the Division of Engineering.

### CIVIL ENGINEERING

The civil engineer's field of work may be divided into four major divisions: sanitary—dealing with water works, sewerage systems, and garbage disposal; hydraulic—interested in flood control, river improvement, irrigation, drainage, and water power; transportation—concerned with railroads, airports, highways, waterways, park systems, traffic control, and city planning; and structural—dealing with bridges, buildings, foundations, dams, tunnels, tanks, bins, and various industrial structures. His function is chiefly one of design and construction, although often it includes maintenance. In order to train a student in these various lines of effort the following equipment is provided.

**HIGHWAY ENGINEERING:** The highway laboratory contains an abrasion machine, an impact machine, a diamond core drill, a diamond saw and grinding lap, as well as complete equipment for the testing of bituminous materials, such as extractors, ductility machine, penetrometer, flash point and melting point apparatus, viscosimeters, float test apparatus, Hubbard's stability machine, and other light equipment.

**SANITARY ENGINEERING:** In the sanitary laboratory there is complete equipment for performing the physical, chemical, bacteriological, and microscopic tests as outlined by the American Public Health Association. Different types of water current meters are available for work in steam gaging.

**SOILS TESTING:** A laboratory for the study of soils has been provided with the following equipment: constant temperature bath, Proctor outfit, liquid limit device, electric oven, centrifuge, hydrometers, sieves, and other equipment necessary to test soils for highway use.

**CEMENT TESTING:** There is available complete equipment for the testing of cement and aggregates, such as an automatic shot testing machine, flow table, Ro-Tap sieve shaker, a two-hundred-thousand-pound hydraulic compression machine, and other necessary supplies.

**SURVEYING:** For use in the courses in surveying, there are eleven transits, sixteen levels, three plane table outfits, solar attachments, sextants, compasses, barometers, and other light equipment, as well as one precise theodolite, and one precise level.

**STRESS ANALYSIS:** Advanced work in stresses is carried on by means of a large-sized Begg's deformeter and photoelastic equipment.

**GENERAL MATERIALS TESTING:** For the testing of steel, wood, and concrete there are a fifty-thousand-pound and a one-hundred-fifty-thousand-pound universal testing machine with extensometers, shearing tools,

transverse indicators, strain gages, autographic recording device and other attachments. The Division also possesses a torsion machine, a Charpy-Izod impact machine, a fatigue machine, a scleroscope, and other accessories.

### ELECTRICAL ENGINEERING

The field of electrical engineering covers the generation of electrical energy, both by water power and steam power, its transmission, distribution, and utilization; communication, both by wire and by radio, and the allied art of television; transportation, by locomotive, bus, and water; and illumination.

THE MACHINERY LABORATORY receives its electric power from the Duke Power Company over a 2300-volt, 60-cycle, three-phase line. The equipment includes an A. C. to D. C. motor-generator set for supplying the laboratory with direct current, four direct connected D. C. to D. C. motor-generator sets, two D. C. to A. C. belted sets, a G. E. sine wave motor-generator set, a Westinghouse phase displacement dynamometer, a General Electric type A. C.-D. C. synchronous converter, for one-, two-, three-, or six-phase operation, a self-starting, single-phase battery charging converter, numerous single-phase constant potential transformers, a three-phase transformer, a constant current transformer equipped with a typical load of series street lamps, three-phase induction regulators, numerous loading devices both electrical and mechanical, and a number of miscellaneous D. C. and A. C. motors and generators. Complete equipment for testing fractional horsepower motors, together with eighteen typical motors, was recently added to this laboratory. In addition, the equipment includes a complete line of measuring instruments for both general testing purposes and precision measurements, and two oscillographs for viewing and photographing wave forms.

THE COMMUNICATIONS LABORATORY is exceptionally well equipped and contains complete apparatus for carrying out all kinds of communication experiments at both audio and radio frequencies. The audio-frequency equipment includes a 200-mile open-wire artificial telephone line, a vacuum tube amplifier-milliammeter-voltmeter, 6-A transmission measuring set, vacuum-tube oscillators calibrated for frequencies ranging from 25 to 75,000 cycles per second, a 1,000-cycle motor-generator, a direct reading frequency meter reading from 20 to 20,000 cycles per second; impedance bridges for both audio and intermediate frequencies; standards of resistance, inductance, and capacitance; filters of various kinds; a high quality amplifier, power amplifiers, loud speakers, noise meter, and other instruments for general test purposes. A complete Automatic Electric Co. telephone exchange is included in this laboratory. The radio-frequency equipment consists of short wave and broadcast receivers, precision wave meter, automatic field strength recorder, standard signal generator, thermo-couples for current and voltage determinations, condensers, inductors, and meters. A complete two-way television telephone set is included with this equipment.



THE ELECTRONICS LABORATORY, adjoining the Communications Laboratory, is completely equipped for studies of vacuum tubes and vacuum tube circuits: power supply units, special high resistance meters, oscillators, vacuum tube voltmeters, thermo-couples, etc.

THE STANDARDIZING LABORATORY is equipped with standard instruments for the purpose of checking and calibrating meters used in any of the other laboratories.

THE PROJECTS LABORATORY is set aside for the use of students who are working on special projects requiring set-ups which cannot be disturbed by regular laboratory experiments. This laboratory is made available to Seniors who elect projects course 265-266.

THE ELECTRICAL CIRCUITS LABORATORY is equipped with all necessary apparatus and instruments for carrying out experiments on direct current and alternating current circuits, such as studies of various types of meters, resistance and conductivity measurement, storage batteries, magnetic measurements, series and parallel circuits, power factor, etc.

THE AMATEUR RADIO STATION, W4AHY, is equipped with a 75-watt crystal controlled C. W. transmitter, a Collins 30FXB 100-watt phone transmitter, Hammarlund Pro receiver, National SW5 receiver, a pair of RCA transceivers, and necessary testing and measuring equipment. The station is controlled and operated by the Engineers Radio Association.

### MECHANICAL ENGINEERING

Mechanical engineering as a profession is concerned with power and machines to generate power and to apply it to useful ends. A field so broad includes all lines of industry, but among the special fields in which mechanical engineers are engaged are combustion or power production engineering, machine and machine-tool design, railway motive power, automotive engineering, aviation engineering, refrigeration, air conditioning, and industrial management.

In order to lay a foundation for a successful career in mechanical engineering it is necessary to provide a tie between theory and practice, to become familiar with engineering apparatus and instruments as well as their testing and calibration. Laboratory work is therefore necessary. The equipment in the Branson Mechanical Laboratory has been carefully arranged in a number of groups, to serve the needs of the undergraduate for efficiently carrying out the program indicated above.

BOILER ROOM. Provision is made for a Keeler oil-fired boiler, together with all accessories and controls to enable its operation by the students for the purpose of making the steam required for all steam experiments and tests.

STEAM EQUIPMENT. Conveniently located adjacent to the boiler room are a Troy horizontal self-oiling automatic steam engine, a Wachs vertical throttling governor steam engine, and a Terry steam turbine, together with brakes and accessories for their complete testing, either as units or as components in a small-scale power plant. Equipment for



studying flow and quality of steam, an injector, and an arrangement for the study and testing of steam traps are included in this group.

**AIR COMPRESSION.** An electrically driven 12 x 10 Ingersoll-Rand air compressor has been arranged with accessories and instruments for testing it, and, in addition, provides means for studying the flow of high pressure air through pipes, valves, and fittings.

**INTERNAL COMBUSTION EQUIPMENT.** Automobile and Diesel engines connected to electric and hydraulic dynamometers and generators are part of this laboratory. Appropriate instruments are provided for the determination of capacity, mechanical and thermal efficiency, and heat balance determinations.

**HYDRAULIC APPARATUS.** A Cameron centrifugal pump driven by a variable speed motor provides for a very complete determination of capacity and efficiency tests as well as being a controllable source of water for tests covering hydraulics as applied to mechanical engineering.

**INSTRUMENT ROOM.** An instrument room is provided for the storing and maintenance of instruments used in the laboratories. These instruments include: steam engine and internal combustion engine indicators and reducing motions, tachometers and speed counters, planimeters, pressure gages and calibrating equipment, thermometers of all types, scales and small tools.

**LUBRICANTS AND FUELS TESTING LABORATORY.** There are complete facilities for proximate analyses and calorific determinations of solid, liquid and gaseous fuels, as well as for all the standard tests of lubricants. Additional equipment provides adequately for boiler feedwater analysis, study of the flow of water through pipes and fittings, blower testing and flow of air through ducts, and a number of tests in the field of air conditioning.

# ADMISSION TO COLLEGE

## GENERAL REGULATIONS

Admission to the Division of Engineering of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. Prospective students and relatives are invited to visit the University and the Division of Engineering in particular. This would be advantageous to the applicant since it would enable him to acquaint himself with the facilities of the University, and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer \$5.00 additional for the privilege of matriculation.

*All correspondence relating to admission of men should be addressed to the Secretary of Duke University, Duke Station, Durham, N. C.*

## ADMISSION TO ENGINEERING DIVISION

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one-fourth of the annual amount of work regularly required in the school.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

	UNITS		UNITS
English .....	4	Botany .....	1
Latin .....	4	Zoology .....	1
Greek .....	3	General Biology .....	1
German .....	3	Physical Geography .....	1
French .....	3	General Science .....	1
Spanish .....	3	Agriculture .....	2
Mathematics .....	4	Mechanical Drawing .....	2
History and Civics .....	4	Woodwork, Forging, and	
Physics .....	1	Machine Work .....	2
Chemistry .....	1	Household Economics .....	2
		Commercial Subjects .....	3

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

## ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least nine and one-half of the fifteen units required for admission must come from the following:

*Required Units*

English .....	3 units
A Foreign Language .....	2 units
*Science .....	1 unit
History .....	1 unit
**Algebra .....	1½ or 2 units
Plane Geometry .....	1 unit

*Elective Units*

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

†Algebra (College Board "B") .....	½ unit
Solid Geometry .....	½ unit
†Trigonometry .....	½ unit
††German or French or Latin or Spanish or Greek .....	1 to 4 units
History or Civics (not the required unit) .....	1 to 3 units
Physics or Chemistry or Biology (not the required unit) .....	1 to 3 units

On account of a lack of uniformity in various states as to the subject matter covered by the various units in algebra and the consequent variation in the work done by Freshmen in advanced algebra, it has become necessary to adopt the College Entrance Examination Board's definition of these units and to require each prospective student to take a placement examination in algebra during Freshman Week. Students who validate by examination one and one-half units (algebra through quadratics, binomial theorem, and progressions) which are offered for admission or two units (algebra through quadratics, binomial theorem, progressions, simultaneous equations in three unknowns, graphs, exponents, and radicals, and logarithms) will be placed in Mathematics 9-10 (5 hours a week, each semester). Those who validate by examination only one unit

\* Wherever possible physics or chemistry should be offered for this requirement.

\*\* Examination required to validate offering.

† Examination required to validate offering.

†† One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

of the offering in algebra (i.e., to quadratics) will be placed in Mathematics 11-12 (6 hours a week, each semester). Those who do not validate by examination at least one unit of their offering in algebra will not be allowed to pursue a course in engineering. Certificates from the College Entrance Examination Board (431 W. 117th Street, New York City) will be accepted in lieu of the placement examination.

### ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University, and students who present the proper units but whose grades are not acceptable, are required to validate their units by entrance examinations in English and in mathematics and such other tests as the University may prescribe, including the test required by the North Carolina College Conference.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by entrance examinations.

### ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions: All applicants must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester-hours of work approved for Seniors, with an average grade of "C," is required of all candidates for the Bachelor's degree.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer \$5.00 additional for the privilege of matriculating.

### FRESHMAN WEEK

The week immediately preceding the opening of the College is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given, on the basis of

which Freshmen are sectioned in English and mathematics. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to a new environment. Attendance upon these exercises is required of all Freshmen.

#### **SPECIAL STUDENTS**

Students of mature age not fully prepared to enter the Freshman Class may be admitted as special students and allowed to enroll for such work as they are prepared to carry. Further, they are required to take fifteen hours of classwork a week.

# **REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING**

## **GENERAL STATEMENT**

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, or mechanical engineering, as a profession, and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E.

Each of these degrees requires one hundred and thirty-eight semester-hours of work of which one hundred and twenty-two must be completed with an average grade of "C." Six semester-hours of electives must be taken in the Departments of Economics or Political Science. If a foreign language is elected, it must be taken two years unless a student has sufficient entrance credits to enable him to pursue a more advanced course.

Prospective students in engineering should note that immediately after the final Freshman examination in May or June they are required to attend a three weeks' course in plane surveying given under the direction of the Summer School.

## **GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING**

### **GROUP I**

#### **CIVIL ENGINEERING**

##### *Freshman Year*

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Chemistry 1 .....	4	Chemistry 2 .....	4
English .....	3	English .....	3
Mathematics 9 or 11 .....	5	Mathematics 10 or 12 .....	5
Drawing 1-5 .....	3	Drawing 2-6 .....	3
Physical Education .....		Physical Education .....	
	<hr/> 15		<hr/> 15
Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.			

##### *Sophomore Year*

Mathematics 99 .....	4	Mathematics 100 .....	4
Physics 57 .....	5	Physics 58 .....	5
Surveying 11 .....	2	Mechanics 8 .....	5
Highways 15 .....	3	Elective (Restricted) .....	3
Elective (Restricted) .....	3	Physical Education .....	
Physical Education .....			
	<hr/> 17		<hr/> 17



*Junior Year*

Strength of Materials 107 .....	4	Hydraulics 108 .....	4
Curves and Earthwork 113 .....	2	Curves and Earthwork 114 .....	2
Structures 131 .....	4	Structures 132 .....	4
Highways 117 .....	2	Materials 118 .....	2
Engineering, Elective .....	3	Engineering, Elective .....	3
Elective .....	3	Elective .....	3
	<hr/>		<hr/>
	18		18

*Senior Year*

Hydraulic Eng. 123 .....	4	Hydraulic Eng. 124 .....	4
Concrete 133 .....	3	Concrete 134 .....	3
Railroads 119 .....	3	Railroads 120 .....	2
Seminar 137 .....	1	Astronomy 112 .....	2
Electives .....	6	Seminar 138 .....	1
	<hr/>	Electives .....	6
	17		<hr/>
			18

**GROUP II****ELECTRICAL ENGINEERING***Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Chemistry 1 .....	4	Chemistry 2 .....	4
English .....	3	English .....	3
Mathematics 9 or 11 .....	5	Mathematics 10 or 12 .....	5
Drawing 1-5 .....	3	Drawing 4-6 .....	3
Physical Education .....		Physical Education .....	
	<hr/>		<hr/>
	15		15

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

*Sophomore Year*

Physics 57 .....	5	Physics 58 .....	5
Mathematics 99 .....	4	Mathematics 100 .....	4
Steam Engineering 85 .....	2	Mechanics 8 .....	5
Mechanism 81 .....	2	Electrical Engineering 52 .....	3
Electrical Engineering 51 .....	3	Physical Education .....	
Physical Education .....			<hr/>
	<hr/>		17
	16		

*Junior Year*

Theory of D. C. Circuits 151 .....	3	Theory of A. C. Circuits 152 .....	3
Electrical Circuits Laboratory 161 .....	1	Electrical Circuits Laboratory 162 .....	1
Strength of Materials 107 .....	4	Electrical Measurements 104 .....	3
Differential Equations 131 .....	3	Hydraulics 108 .....	4
Thermodynamics 187 .....	3	Thermodynamics 188 .....	3
M. E. Laboratory 199 .....	1	M. E. Laboratory 200 .....	1
Elective .....	3	Elective .....	3
	<hr/>		<hr/>
	18		18

*Senior Year*

D. C. Machinery 155 .....	2	A. C. Machinery 258 .....	3
D. C. Mach. Laboratory 163 .....	1	Elec. Power Stations 158 .....	3
A. C. Machinery 257 .....	3	Communication 262 .....	4
Elec. Power Transmission 159 .....	3	Seminar 166 .....	1
Communication 261 .....	3	Elective .....	6
Seminar 165 .....	1		
Elective .....	6		17
	19		

**GROUP III****MECHANICAL ENGINEERING***Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Chemistry 1 .....	4	Chemistry 1 .....	4
English .....	3	English .....	3
Mathematics 9 or 11 .....	5	Mathematics 10 or 12 .....	5
Drawing 1-5 .....	3	Drawing 4-6 .....	3
Physical Education .....		Physical Education .....	
	15		15

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

*Sophomore Year*

Mathematics 99 .....	4	Mathematics 100 .....	4
Physics 57 .....	5	Physics 58 .....	5
Mechanism 81 .....	2	Mechanics 8 .....	5
Steam Engineering 85 .....	2	Elective (Restricted) .....	3
Constructive Processes 79 .....	2	Physical Education .....	
Elective (Restricted) .....	3		
Physical Education .....			17
	18		

*Junior Year*

Strength of Materials 107 .....	4	Machine Design 170 .....	3
Hydraulics 108 .....	4	Thermodynamics 188 .....	3
Thermodynamics 187 .....	3	Inter. Comb. Eng. 197 .....	3
M. E. Laboratory 189 .....	2	M. E. Laboratory 190 .....	2
Electrical Engineering 153 .....	3	Electrical Engineering 154 .....	3
Elective .....	3	Elective .....	3
	19		17

*Senior Year*

Machine Design 171 .....	3	Industrial Eng. 192 .....	3
Power Plants 191 .....	3	M. E. Laboratory 194 .....	2
M. E. Laboratory 193 .....	2	Refrigeration 196 .....	2
Heating and Ventilation 195 .....	2	Aeronautics 198 .....	3
Seminar 173 .....	1	Seminar 174 .....	1
Electives .....	6	Electives .....	6
	17		17

## COURSES OF INSTRUCTION

### DIVISION OF ENGINEERING

Note: Courses primarily for Freshmen and Sophomores are numbered from 1 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and Graduates from 200 to 299. The amount of credit for each course is given in semester-hours following the description of the course.

The designation (w) or (E) indicates that the course is to be given on the West Campus or on the East Campus. The designation (w & E) indicates that the course will be given on each campus.

Odd-numbered courses are offered in the fall semester and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must be continued throughout the year if credit is received.

#### GENERAL ENGINEERING

1. **Engineering Drawing.**—Orthographic projection, lettering, pictorial representation, developments, intersections, use of universal drafting machine. Six laboratory hours. 2 s.h. (E) STAFF

2. **Engineering Drawing.**—For students in civil engineering and forestry. Methods of plotting, topographic symbols, simple structures in wood and steel. Six laboratory hours. Prerequisite: course 1. 2 s.h. (E) STAFF

4. **Engineering Drawing.**—For students in electrical and mechanical engineering. Elementary machine drawing. Six laboratory hours. Prerequisite: course 1. 2 s.h. (E) STAFF

5-6. **Descriptive Geometry.**—Problems relating to point, line, plane, and solid. Concurrent with courses 1 and 2-4. No credit given unless taken for two semesters. One recitation, three laboratory hours. 2 s.h. (E) STAFF

8. **Mechanics.**—Concurrent forces, parallel forces, non-concurrent and non-parallel forces, centroids, friction, moment of inertia, translation, rotation, work, energy, and momentum. Prerequisites: course 1 and Mathematics 55. 5 s.h. (E) STAFF

107. **Strength of Materials.**—Elastic bodies under stress; flexure of simple, overhanging, fixed, and continuous beams; columns; combined stresses; etc. Three recitations, three laboratory hours. Prerequisite: course 8. 4 s.h. (E) STAFF

108. **Hydraulics.**—Hydrostatics; flow of water through orifices, weirs, pipes, and open channels; general principles of water wheels and turbines. Prerequisite: course 8. 4 s.h. (E) Either semester. STAFF

#### CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; MR. WILLIAMS

S10. **Plane Surveying.**—Use of instruments; transit, stadia, compass and plane table surveying; simple triangulation; determination of meridian by observation of Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, and departures; areas by planimeter; methods of plotting; survey and plot of sections of the campus by stadia, and transit and tape. Eight hours a day, three weeks, Summer School. Prerequisite: course 1. Trigonometry. 3 s.h. (E)

See the *Bulletin of the Summer School*.

**11. Higher Surveying.**—Care and adjustment of instruments; topographical surveying; surveys and resurveys; laying out and division of land; public land system; further calculations, omitted measurements, areas by double longitude; quantities from profiles and cross sections. Prerequisite: course 10. 2 s.h. (E) MR. WILLIAMS

**S110. Plane Surveying.**—Similar to course 10 but especially arranged for students in forestry. Eight hours a day, three weeks, Summer School. Prerequisites: Engineering Drawing and Trigonometry. 3 s.h.

See the *Bulletin of the Summer School*.

**S111. Higher Surveying.**—For students in forestry. In addition to the ground covered in course 11, the field work includes a more thorough drill in the use of the Beaman stadia arc and the topographic abney level and trailer tape while more attention is given to the preparation of finished maps in the office work. Eight hours a day, three weeks, Summer School. Prerequisite: course 10 or 110. 3 s.h.

See the *Bulletin of the Summer School*.

**112. Field Astronomy.**—Determination of latitude, longitude, time, and azimuth by observation on sun and stars; use of precise transit, solar attachment, and sextant. Prerequisite: course 11. 2 s.h. (E)

PROFESSOR BIRD

**113-114. Curves and Earthwork.—Highways.**—Thorough drill in the calculation and laying out of simple compound, and easement curves, widening of curves, vertical curves, setting slope stakes, ordinary earthwork computations, and mass diagrams. Prerequisite: course 10. 4 s.h. (E)

PROFESSOR HALL

**15. Highway Engineering.**—Location, construction, and maintenance of roads and pavements; dust prevention; road economics. 3 s.h. (E)

PROFESSOR HALL

**117. Highway Engineering.**—Standard tests of stone, gravel, and bituminous materials. Prerequisite: course 15. 2 s.h. (E) MR. WILLIAMS

**118. Materials of Engineering.**—Study and testing of materials other than those taken up in course 117. 2 or 3 s.h. (E) MR. WILLIAMS

**119-120. Railroad Engineering.**—Differences between highway and railway practice affecting curves and earthwork. A. R. E. A. transition curve, frogs, switches, and crossings. Preliminary and location survey of a railway of sufficient length to secure familiarity with methods of actual practice. Paper location made with estimate of cost. Construction and maintenance of track and trackwork, economics, and operating conditions affecting location. Prerequisite: course 113-114. 5 s.h. (E)

PROFESSOR BIRD AND MR. WILLIAMS

**123-124. Hydraulic Engineering.**—

(a) Hydrology—Factors affecting precipitation, evaporation from land and water surfaces; relation of precipitation to run-off; estimating run-off; floods and flood flows. Stream gauging.

(b) Public Water Supply—Quantity and quality of water required, hydraulics of wells, reservoirs, works for purification and distribution of water. Standard laboratory tests for chemical and bacteriological examination of water.

(c) Sewerage—Sewerage systems, rainfall and storm water flow, sizes of storm and sanitary sewers, sewage disposal. Standard laboratory tests of sewage. Prerequisite: course 108. 8 s.h. (E) PROFESSOR HALL

**131. Steel Structures.—Stresses.**—Roofs, parallel chord bridges under all types of loads, inclined top chord bridges, including subdivided panels, wind bracing. Prerequisite: course 8. 4 s.h. (E) PROFESSOR BIRD

**132. Steel Structures—Design.**—Built beams, plate girders, tension members, compression members, tension and compression members, end posts, stringers, floor beams, pins, plates, etc. Drafting. Prerequisites: courses 107 and 131. 4 s.h. (E) PROFESSOR BIRD

**133. Reinforced Concrete.**—Theory and design of reinforced concrete beams, slabs, columns. Prerequisite: course 107. 3 s.h. (E) PROFESSOR BIRD

**134. Masonry Structures.**—Ordinary foundations, dams, retaining walls, arches, piers, abutments. Prerequisites: courses 107 and 133. 3 s.h. (E) PROFESSOR BIRD

**137-138. Seminar.**—Students are required to make reports and to talk on current engineering literature or on such other topics as may be assigned. 2 s.h. (E) STAFF

**143-144. Projects in Civil Engineering.**—This course may be assigned by the Chairman of the Department to certain Seniors who have shown an aptitude for research in one distinct field of civil engineering, in which case it may be substituted for certain general civil engineering courses. 3-6 s.h. (E) PROFESSORS BIRD AND HALL

**E.240. Indeterminate Structures.**—Introductory course dealing with the application of theory of least work, deflection, and rotation to indeterminate stresses. Problems are solved analytically, graphically, and by deformer. Prerequisites: course 131 and ability to read French or German. 3 s.h. (E) PROFESSOR BIRD

## ELECTRICAL ENGINEERING

PROFESSOR SEELEY; MESSRS. MEIER AND RANSON

**51-52. Survey of Electrical Engineering.**—A general survey course covering the entire field of electrical engineering, intended to give the electrical engineering student a general preview of the subject as a whole. Required of Sophomores. Prerequisites: Freshmen mathematics and concurrent physics. 6 s.h. (E) MR. MEIER

**151. Theory of Direct Current Circuits.**—A course consisting of lectures and recitations covering the fundamental theory of direct current circuits. Two-hour class, two-hour computation. Prerequisites: course 51-52, Physics 57-58, Mathematics 99, 100. Mathematics 131 should be taken concurrently. 3 s.h. (E) MR. RANSON

**152. Theory of Alternating Current Circuits.**—This course covers the algebra of vectors and complex quantities, non-sinusoidal waves, polyphase circuits, harmonics, and unbalanced three-phase circuits. Two-hour class, two-hour computation. Prerequisites: course 151, Mathematics 131. 3 s.h. (E) MR. MEIER

**153-154. Principles of Electrical Engineering.**—An elementary course consisting of lectures, recitations, and laboratory covering the principles of direct and alternating current machinery, and their applications, designed especially for students in civil and mechanical engineering. This course includes one three-hour period in the electrical machinery laboratory per week. Prerequisite: Physics 57-58. 6 s.h. (E) MR. RANSON



**155. Direct Current Machinery.**—A study of the principles which underlie the design and operation of all types of direct current machinery. Prerequisites: courses 151, 161-162. 2 s.h. (E) MR. MEIER

**156. Electric Transportation.**—Construction, operation, and uses of electric equipment in air, land, and sea transportation. Elective. Prerequisites: courses 151, 152, 161-162, or 153-154. 3 s.h. (E) MR. RANSON

**158. Electric-Power Stations.**—A course of lectures and recitations pertaining to the design, construction, and operation of electric power stations, both steam and hydraulic. Consideration of prime movers; generating machinery; switchboards; instruments, relays, and protective devices; operation and management; visits to neighboring plants. Prerequisites: courses 151, 152, and 187-188. 3 s.h. (E) MR. RANSON

**159. Electric-Power Transmission.**—A course of lectures and recitations on the factors involved in the transmission of electrical energy over long distances and the use of hyperbolic functions in the solution of transmission line problems. Two-hour class, two-hour computation. Prerequisite: course 151, 152. 3 s.h. (E) PROFESSOR SEELEY

**161-162. Electrical Circuits Laboratory.**—This course provides experimental verification of the theory developed in courses 151 and 152, and should be taken concurrently. Three hours per week. 2 s.h. (E) PROFESSOR SEELEY

**163. Direct Current Machinery Laboratory.**—A study of the technique of testing direct current machines and a thorough analysis of their performance. Concurrent with course 155. 1 s.h. (E) MR. MEIER

**165-166. Electrical Engineering Seminar.**—Seniors are required to present reports and dissertations on material appearing in current engineering literature. Juniors may participate, but without credit. Scheduled at night. 2 s.h. (E) STAFF

**257-258. Alternating Current Machinery.**—This course covers the theory underlying the design, construction, and operation of synchronous generators and motors, transformers, converters, single-phase and polyphase motors of all types. Two-hour class, three-hour laboratory. Prerequisites: courses 152, 155. 6 s.h. (E) MR. MEIER

**261. Communication Engineering, Audio Frequency.**—An advanced course on the principles underlying voice-frequency communication covering nature of speech and sound, wave propagation over metallic circuits, filters; resistance, inductance, capacitance at audio frequencies; transmission characteristics of communication equipment. Two-hour class, three-hour laboratory. Prerequisites: courses 151, 152, Mathematics 131. 3 s.h. (E)

PROFESSOR SEELEY

**262. Communication Engineering, Radio Frequency.**—An advanced course on the principles underlying radio communication, covering vacuum tubes, vacuum-tube circuits, oscillating and coupled circuits, antennae, radiation, transmission and reception. Three-hour class, three-hour laboratory. Prerequisite: course 261. 4 s.h. (E) PROFESSOR SEELEY

**263-264. Mathematical Analysis of Electrical Circuits.**—An advanced course on the detailed mathematical analysis of certain circuits used in electrical engineering, with an introduction to the use of operational calculus as applied to electrical circuits. Elective. Prerequisites: courses 151, 152 and Mathematics 131. 6 s.h. (E) PROFESSOR SEELEY



**E.265-266. Projects in Electrical Engineering.**—Project work may be undertaken only by those who show special aptitude, or who have had previous experience on some problem. The consent of the Chairman of the Department must be obtained before registering. Seniors only. Elective credit. 3-6 s.h. (E)  
PROFESSOR SEELEY AND STAFF

## MECHANICAL ENGINEERING

PROFESSOR WILBUR; MESSRS. REED AND CHAPMAN

**79. Constructive Processes.**—Recitation course covering general processes in foundry, forge, and machine shop. Trips to neighboring shops are made. Prerequisite: course 4. Open only to mechanical engineering students. 2 s.h. (E)  
MR. CHAPMAN

**81. Mechanism.**—Displacement, velocity, and acceleration diagrams. Particular attention is given to gearing, cams, trains of mechanisms, belts, and link work. One recitation, three laboratory hours. Prerequisite: course 4. 2 s.h. (E)  
MR. REED

**85. Steam Engineering.**—Elementary principles of boilers, engines, turbines, and auxiliaries; properties of steam, fuels, and combustion. 2 s.h. (E)  
PROFESSOR WILBUR AND MR. CHAPMAN

**170-171 (old 183-184). Machine Design.**—Friction, lubrication, bearings, shafts, springs, pressure vessels, fastenings, gears, belting, friction clutches, and fly-wheels. Application of the above to proportioning parts of several complete machines. Two recitations, three laboratory hours. Prerequisites: courses 8, 81, and 107. 6 s.h. (E)  
MR. REED

**187-188. Engineering Thermodynamics.**—Properties and thermodynamics processes of gases and vapors; cycles; efficiencies and performances of heat engines. Prerequisites: course 85 and Mathematics 100. 6 s.h. (E)  
PROFESSOR WILBUR AND MR. REED

**173-174. Seminar.**—Students are required to make reports and to talk on current engineering literature or on such other topics as may be assigned. 2 s.h. (E)  
STAFF

**175-176. Projects in Mechanical Engineering.**—This course may be assigned by the Chairman of the Department to certain Seniors who have shown an aptitude for research in one distinct field of mechanical engineering, in which case it may be substituted for certain general mechanical engineering courses. Either semester. 3 s.h. (E)  
PROFESSOR WILBUR AND STAFF

**189-190. Junior Mechanical Engineering Laboratory.**—Open only to mechanical engineering students. Use of steam and fuel calorimeters; gas analysis; oil testing; measurement of steam and air flow; tests on steam, oil, and internal combustion engines and boilers. Six laboratory hours. (Concurrent with 187-188.) 4 s.h. (E)  
MR. CHAPMAN

**199-200. Junior Mechanical Engineering Laboratory.**—Open only to civil and electrical engineering students who have elected courses 187-188. Use of steam and fuel calorimeters; gas analysis; measurement of steam and air flow; tests on steam engines and turbines, boilers and internal combustion engines. Three laboratory hours. 2 s.h. (E)  
MR. REED

**191. Power Plant Calculations.**—Factors which determine the location and type of power plant including heat balance and economics, boilers, feed water treatment, prime movers, condensers, auxiliaries, and accessories. Prerequisites: Mathematics 100 and courses 188 and 189. 3 s.h. (E)  
PROFESSOR WILBUR

**192. Industrial Engineering.**—Economic and engineering factors in the development of power plants and other modern industrial organizations with the study of manufacturing methods. *For Seniors only.* 3 s.h.

PROFESSOR WILBUR

**193-194. Senior Mechanical Engineering Laboratory.**—Economy and efficiency tests of steam engines, turbines, boilers, power plant auxiliaries, fans, internal combustion engines, and heating and refrigerating systems according to the A. S. M. E. Power Test Codes. Heat balance and heat transfer tests. Six laboratory hours. Prerequisite: course 191 concurrently. 4 s.h. (E)

PROFESSOR WILBUR

**195. Heating and Ventilating.**—Heat losses from building; design of hot air, hot water, and steam heating systems; humidifying, air conditioning, and ventilation in homes, offices, and factory buildings. 2 s.h. (E)

MR. REED

**196. Refrigeration.**—Heat transfer and heat insulation; cooling and refrigerating systems applied to ice manufacturing and cold storage; dry ice and other refrigerants considered. Prerequisites: courses 188 and 190 or 200. 2 s.h. (E)

MR. REED

**197. Internal Combustion Engines.**—Otto and Diesel engine cycles as applied to the usual types of internal combustion engines using gaseous or liquid fuels. Analytical and graphical methods applied to fluctuations of energy, balancing of rotating parts, and regulation by governors. Prerequisite: course 187. 3 s.h. (E)

PROFESSOR WILBUR

**198. Aeronautics.**—Airfoils, parasite resistance, propellers, the complete airplane, stability, performance, dynamic loads, and equipment. Prerequisite: course 171. 3 s.h. (E)

MR. CHAPMAN

### REQUIRED NON-ENGINEERING SUBJECTS

**1-2. General Inorganic Chemistry.**—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. It is desirable, though not required, that students taking this course shall have taken elementary physics either in high school or in college. One lecture, two recitations, and three laboratory hours, throughout the year. 8 s.h. (w & E)

STAFF

**1-2. English Composition.**—All Freshmen are required to take course 1 and course 2; however, those who earn a grade of "B" or more on the work of the first semester may in the spring substitute course 4 for course 2.

Students in courses 1 and 2 who fail to earn an average grade of "C" on the work of both semesters and at least a grade of "C" on the work of the spring term are required to do the work of English 53 during their Sophomore year. Those who do not earn a grade of "D" during the first semester are required to repeat during the spring course 1; if they earn a grade of "D" or more at the end of the spring semester, they receive credit for the first half-year of work, and during their Sophomore year they are required to do the work of English 2. Students whose grades for both semesters fall below "D" must repeat the entire course during their second year. 6 s.h. (E & w)

STAFF

**53. English Composition.**—A second course in composition for Sophomores. 3 s.h. *Repeated in the second semester.* (w & E)

STAFF

**9-10. Engineering Mathematics.**—This course, given for Engineering Freshmen and other students who desire to take more than six hours of mathematics in their Freshman year, includes college algebra, plane trigonometry, and plane and solid analytic geometry. 10 s.h. (E)

STAFF

11-12. **Engineering Mathematics.**—This course is given for Engineering Freshmen who do not qualify to take Mathematics 9-10. 10 s.h. (E)

STAFF

99. **Differential Calculus.** *Each semester.* Prerequisite: course 9-10, or 11-12, or equivalent. 4 s.h. (W & E)

STAFF

100. **Integral Calculus.**—*Each semester.* Prerequisite: course 55. 4 s.h. (W & E)

STAFF

131. **Differential Equations.**—A study of the more common types of ordinary differential equations. Primarily a problem course for engineers. Prerequisite: course 100. 3 s.h. (W)

STAFF

57-58. **Physics for Engineers.**—A course in general physics which gives special emphasis to engineering problems. Open to Sophomores who have completed trigonometry. Four-hour recitation (E) and three-hour laboratory. 10 s.h. (W)

DR. MOUZON AND ASSISTANTS

104. **Electrical Measurements.**—This course is intended as a general elective for students in electrical engineering and physics. A fundamental course in electrical engineering, or course 103 is a prerequisite. Two recitations and one three-hour laboratory period per week. 3 s.h. (W)

PROFESSOR NIELSEN

### RECOMMENDED ELECTIVE SUBJECTS

51-52. **Principles of Economics.**—This course must be taken by all students planning to elect further courses in economics and business administration. Old number 1. 6 s.h. (W & E)

STAFF

103. **Transportation.**—Essential features, problems, and competitive positions of rail, highway, water, and air transportation. Special attention is devoted to valuation, rates, and regulation as applied to railway transportation. Collateral reading and the preparation of papers are required. *For Juniors and Seniors.* 3 s.h. (W)

ASSISTANT PROFESSOR LONDON

105. **Industrial Management and Business Forecasting.**—A study of the organization and management of industry, with emphasis upon the business applications of the principles developed. Problems of interrelations of functions operating in the several fields of management, such as production control, personnel, and the forecasting of business conditions. *For Juniors.* 3 s.h. (W)

STAFF

115. **Economic Geography.**—*This course is not open to students who have received credit for Economics A.* The study of the interrelation of human activities and environmental elements. The discussion embraces location, maps and their interpretation, the major climatic regions, seasonal influences, weather, lands and their uses, soils and minerals, bodies of water, plants, animals, and the work of man as environmental factors. 3 s.h. (E)

DR. LEMERT

57-58. **First-Year Accounting.**—Elementary principles of single proprietorship, partnership, and corporation accounting. Supervised laboratory periods will be assigned. Old number 7. 6 s.h. (W)

STAFF

137-138. **Business Statistics.**—A year's course in elementary statistics designed principally for students of economics and business administration. The material is also of interest to those specializing in engineering, forestry, political science, sociology, and other subjects. The first term is devoted to a study of statistical methods; the second term, to application of these methods. Very little algebra and no higher mathematics are required. *For Juniors and Seniors.* 6 s.h. (W)

DR. NICHOL

**181-182. Business Law.**—The fundamental principles of law as applied to common business transactions. The topics presented are: contracts, agency, bailments, sales, negotiable instruments, partnership, corporations, and bankruptcy. Textbook: Bays, *Business Law*. Casebook: Bays, *Cases on Commercial Law*. Required of Seniors in the Business Administration Group. Old number 178. 6 s.h. (w) MR. LAYTON

**101-102. American Government and Politics.**—A study of the American political system, the subject matter of which includes the organization and functioning of national, state, and local governments in the United States. Open to Sophomores by special permission. 6 s.h. (w & E) STAFF

**164. Railroad Legislation in the United States.**—A study of powers, activities and the interrelationship of regulatory bodies, state and federal, as evidenced in legislation, administrative functioning and judicial interpretation. 3 s.h. (w) PROFESSOR WILSON

**294. Municipal Government and Administration.**—A study of the general problems related to the structural system and activities of municipalities in the United States. Special reference is made to the problems of municipal government in North Carolina. 3 s.h. (w) PROFESSOR RANKIN

Special permission of the instructors must be obtained before registering in courses 164 and 294.

**151. Public Speaking.**—A course in the fundamentals of public speaking with emphasis upon the effective presentation of ideas. 3 s.h. (w) ASSISTANT PROFESSOR HERRING AND MR. LEWIS

**152. Argumentation.**—A course dealing with the principles of argumentation and debating with special emphasis upon brief-making and practice-speaking. Public questions are studied as parallel work. 3 s.h. (w) ASSISTANT PROFESSOR HERRING AND MR. LEWIS

**53. General Bacteriology.**—Laboratory and lectures. 4 s.h. (w) PROFESSOR WOLF

**51. General Geology.**—This course is designed to give a general view of the surface features of the earth, their origin, structure, and materials. Illustrative materials are studied in the laboratory. Excursions are made to neighboring points where the principles of the science are studied in the field. Three one-hour lectures or recitations and one three-hour laboratory. 4 s.h. (w) ASSISTANT PROFESSOR BERRY

**52. General Geology.**—This course is designed to give some knowledge of the chief events of the earth's history. Excursions will be made to suitable neighboring localities. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisite: Geology 51. 4 s.h. (w) ASSISTANT PROFESSOR BERRY



## FEES AND EXPENSES

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The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences and in history. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

### GENERAL FEES

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage fee, payable annually at the time of first registration.....	1.00
Medical fee, per semester.....	5.00
Library fee, per semester.....	5.00
Commencement fee, payable annually at the beginning of the second semester .....	3.00
Publication fee:	
First semester.....	2.50
Second semester.....	3.00
Diploma fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00

### LABORATORY AND MATERIALS FEES

Botany 1, 2, 52, 55, 104, 156, 202, 204, 221, 255, and 256.....	\$2.50
Botany 51, 103, 151, 203, 216, and 252.....	5.00
Forest Botany 224 and 253.....	2.50
*Chemistry 1, 2, 61, 70, 81, 142, 153, 154, 215, 216, 231, 232, 260, 261, and 262 .....	7.00
Chemistry 151, 152, 241, 242, 253, and 254.....	8.50
Education 1, 58, 68, and 101.....	1.00
Education 54 .....	2.00
(See note under history below.)	
Education 112, 115, 116, 122, and 131.....	7.50
Education 208 (for testing materials in lieu of text) .....	2.50
Engineering	
Civil S10 and S110—See <i>Summer School Bulletin</i> .	
Civil 11, 107, 111, 112, 113, 114, 117, 118, 119, 123, 124, and 240.....	2.00
Electrical 153, 154, 161, 162, 163, 258, 261, 262.....	2.00
Mechanical 189, 190, 193, 194, 199, and 200.....	2.50
Forestry 224, 253, 259, 260, 264, 357a, and 358a.....	2.50
Forestry 261, 351, 352, 357b, 358b.....	5.00
Geology 51, 52, 101, 151, and 152.....	2.50
Geology 102 .....	5.00
Field trip in Geology 51-52 and 101-102 at cost.	

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\* When the laboratory in Chemistry 153-154 supplements that of another course and is taken simultaneously with such course no fee is charged for Chemistry 153-54.

History 91 and 92.....	3.00
No texts are required in these courses, but a fee of \$3.00 is charged, and books are placed in the Library for the use of those taking the courses. This fee is payable at the beginning of the semester and is collected through the office of the Treasurer of the University.	
Physics 1 and 2.....	2.00
Physics 57, 58, 104, 205, 206, 215, 216, 217, and 218.....	3.00
Physics 51-52, and 106.....	5.00
Zoology 1, 2, 92, 161, 174, 204, 222.....	3.00
Zoology 53, 151, 156, 224, and 229.....	5.00
Zoology, all other advanced laboratory courses.....	3.00

### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost, while all charges made by the University have been kept low. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary college expenses for one year, including board, room-rent, and such University fees as tuition, matriculation, commencement, library, damage, and medical, vary from \$574.50 to \$639.50. Books and laundry are not included in these figures, nor an estimated cost of \$20.00 to \$25.00 for drawing equipment.

The athletic and publication fees, also included in the above figures, while not essentially University fees, are at the request of the students collected by the Treasurer of the University as designated above. The proceeds of these fees are turned over to these distinct and separate student activities. The athletic fee entitling the holder to admission to all athletic contests held on the University grounds is collected from all regularly enrolled students. The publication fee pays for a blanket subscription to the semiweekly student newspaper, the monthly student magazine, and the student yearbook. With all undergraduates this charge is compulsory, but in the case of graduate students it is optional.

### DORMITORIES

The regular fee for room-rent in the Southgate Building, set aside for engineering students, is \$50.00 per semester (two in a room).

Rooms in Epworth Hall, East Campus, are open to men students for a rental of \$30.00 per student, per semester.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, College Station, Durham, North Carolina. A reservation fee of \$25.00 must accompany the application for a room. The reservation fee is deducted from the room charges at the time of registration for the fall semester. An applicant who is accepted and has a room reserved is not entitled to a refund of the reservation fee unless the request is made on or before August 1.

A resident student in order to retain his room for the succeeding year is requested to make application accompanied by a reservation fee of \$25.00 between April 15 and May 15 at the office of the Director in the



Business Division. All rooms which have not been reserved on or before May 15 will be considered vacant for the succeeding year and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or in the case of a medical student, one quarter, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

### **BOARDING ACCOMMODATIONS**

It is the policy of the University to furnish board to its students at actual cost. Charges for board will not exceed \$25.00 per month.

### **LAWS REGULATING PAYMENTS**

The Executive Committee of the Trustees of Duke University has enacted the following regulations, which govern the payment of all fees due the University:

1. The President and the Treasurer of the University have no authority to suspend, or in any way alter, these regulations.

2. Matriculation and tuition fees are never refunded.

3. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full.

4. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all of his indebtedness to the University.

5. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the mid-year or final examinations of the academic year.

When a student wishes his bills sent to his parent or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties if his bills are not paid on the dates advertised.

### **TRANSCRIPTS**

Students desiring to transfer from Duke University to another institution are entitled to one transcript of their record. A charge of one dollar is made for each additional copy.

### **ENGINEERING ORGANIZATIONS AND FRATERNITIES**

American Institute of Electrical Engineers; American Society of Civil Engineers; American Society of Mechanical Engineers; Delta Epsilon Sigma (Honorary Engineering Fraternity); The Engineers' Club.







VOLUME 10

March, 1938

NUMBER 3

# BULLETIN OF DUKE UNIVERSITY

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*The School of Law*



ANNOUNCEMENT FOR 1938-1939

PUBLISHED BY THE UNIVERSITY

DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF UNDERGRADUATE INSTRUCTION, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES, apply to *The Dean of the Graduate School*, Duke University, Durham, N. C.

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For BULLETIN OF THE SUMMER SCHOOL, apply to *The Director of the Summer School*, Duke University, Durham, N. C.

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BULLETIN  
OF  
DUKE UNIVERSITY  
THE SCHOOL OF LAW



ANNOUNCEMENT FOR 1938-1939

DURHAM, NORTH CAROLINA

1938



# CONTENTS

## I. FACULTY

PAGE

Faculty .....	7
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## II. ORGANIZATION, EQUIPMENT, AND SPECIAL ACTIVITIES

History and Organization.....	10
Purposes and Method of Instruction.....	11
The Law School Building.....	12
The Law Library.....	12
The Legal Aid Clinic.....	12
The Practice Course.....	13
Legal Periodicals.....	13
The Duke Bar Association.....	14

## III. GENERAL INFORMATION

Matriculation, Registration, and Enrollment.....	15
Fees and Expenses.....	15
Scholarships and Student Aids.....	16
Awards .....	17
Order of the Coif.....	17
Conduct of Students.....	18
Recreational Facilities.....	18

## IV. ADMISSION OF STUDENTS

Directions to Applicants for Admission.....	19
Requirements for Admission.....	19
Combined Course.....	19
Admission to Advanced Standing.....	20
Candidates for Graduate Degrees.....	20

## V. REQUIREMENTS FOR BACHELOR OF LAWS DEGREE— STUDENT PROGRAMS

Bachelor of Laws Degree.....	21
The First-Year Program.....	21
Second- and Third-Year Programs.....	22

## VI. GRADUATE WORK IN LAW

Graduate Degrees.....	24
Requirements for Admission to Graduate Study.....	24
Degree of Master of Laws.....	24
Degree of Doctor of Juridical Science.....	25

## VII. COURSES OFFERED

General Courses.....	26
Business Courses.....	27
Property Courses.....	28
Public Law Courses.....	29
Jurisprudence Courses.....	30
Procedure and Practice Courses .....	30
Legal Research and Writing .....	31

## VIII. STUDENTS

Enrollment for 1937-38.....	33
First-Year Class.....	33
Second-Year Class.....	35
Third-Year Class.....	36
Graduate Students.....	36
Unclassified Students.....	37
Institutions Represented.....	37
States Represented.....	37
General Summary.....	38
Degrees Awarded in June, 1937.....	38

## UNIVERSITY CALENDAR

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1938

- Sept. 21. Wednesday—Registration of Law Students.  
Sept. 22. Thursday—Commencement of Instruction.  
Nov. 11. Friday—Armistice Day.  
Nov. 24. Thursday—Thanksgiving Day: a holiday.  
Dec. 10. Saturday—Duke University Day.  
Dec. 20. Tuesday—1:00 P.M. Christmas recess begins.

1939

- Jan. 3. Tuesday—8:00 A.M. Instruction is resumed.  
Jan. 20. Friday—Mid-year examinations begin.  
Jan. 31. Tuesday—Last day for matriculation for second semester.  
Feb. 1. Wednesday—Second semester begins.  
Feb. 22. Wednesday—Washington's Birthday: a holiday.  
March 29. Wednesday—1:00 P.M. Spring vacation begins.  
April 5. Wednesday—8:00 A.M. Instruction is resumed.  
May 23. Tuesday—Final examinations begin.  
June 3. Saturday—Commencement opens; Faculty breakfast for Law Seniors.  
June 4. Sunday—President's Address to Graduating Class.  
June 5. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.





## I. FACULTY

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WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., LL.D.

PRESIDENT OF THE UNIVERSITY

H. CLAUDE HORACK, Ph.B., LL.B., LL.D.

DEAN AND PROFESSOR OF LAW

Ph.B. 1899, LL.B. 1900, State University of Iowa; LL.B. 1904, Harvard University; LL.D. 1937, Tulane University; Assistant Professor of Law, University of Wisconsin, 1904-07; Professor of Law, State University of Iowa, 1907-30; University of Michigan, summer 1922; University of Wisconsin, summer 1924; University of Southern California, summer 1931; Stanford University, summer 1936; Advisor, Council of Legal Education and Admissions to the Bar of the American Bar Association, 1927-30; Secretary, Association of American Law Schools, 1926-28, President, 1929; Professor of Law, Duke University, 1930-34; Dean and Professor of Law, since 1934.

BRYAN BOLICH, A.B., B.A. (Juris.), M.A., B.C.L.

PROFESSOR OF LAW

A.B. 1917, Duke University; Duke University Law School, 1919-21; B.A. (Juris.) 1923, B.C.L. 1924, M.A. 1927, Oxford University; general practice, 1924-27; Professor of Law, Duke University, since 1927.

JOHN S. BRADWAY, A.B., A.M., LL.B.

PROFESSOR OF LAW AND DIRECTOR OF THE LEGAL AID CLINIC

A.B. 1911, A.M. 1915, Haverford College; LL.B. 1914, University of Pennsylvania; general practice, 1914-29; Legal Aid Society of Philadelphia, 1914-20; chief counsel, Philadelphia Legal Aid Bureau, 1920-22; Secretary, National Association of Legal Aid Organizations since 1923; Visiting Professor of Law and Director of the Legal Aid Clinic, University of Southern California, summer 1928; Professor of Law and Director of the Legal Aid Clinic, University of Southern California, 1929-31; Professor of Law and Director of Legal Aid Clinic, Duke University, since 1931.

THADDEUS DILLIARD BRYSON

PROFESSOR OF LAW

Emory and Henry College, 1889-90; University of North Carolina, 1891-95; general practice, 1895-1918; Solicitor, 20th Judicial District, North Carolina, 1908-16; Judge, Superior Court, North Carolina, 1918-26; general practice, 1926-27; Professor of Law, Duke University, since 1927.

DAVID F. CAVERS, B.S., LL.B.

PROFESSOR OF LAW

B.S. in Econ. 1923, University of Pennsylvania; LL.B. 1926, Harvard University; general practice, 1926-29; Instructor in Law, Harvard University, 1929-30; Assistant Professor of Law, West Virginia University, 1930-31; Visiting Professor of Law, Yale University, first semester, 1936-37; Assistant Professor of Law, Duke University, 1931-32; Professor of Law, Duke University, since 1932.

LON L. FULLER, A.B., J.D.

PROFESSOR OF LAW

A.B. 1924, J.D. 1926, Stanford University; Assistant Professor of Law, University of Oregon, 1926-27; Associate Professor of Law, University of Oregon, 1927-28; Associate Professor of Law, University of Illinois, 1928-30; University of Chicago, summer 1930, 1933; Professor of Law, University of Illinois, 1930-31; University of Washington, summer 1931; University of North Carolina, summer 1934; University of Southern California, summer 1937; Professor of Law, Duke University, since 1931.

ELVIN R. LATTY, B.S., J.D., J.Sc.D.

PROFESSOR OF LAW

B.S. 1923, Bowdoin College; J.D. 1930, University of Michigan; J.Sc.D. 1936, Columbia University; Instructor in Romance Languages, University of Vermont, 1923-27; general practice, 1930-33; Special Fellow, Columbia University, 1933-34; Associate Professor of Law, University of Kansas, 1934-35; Professor of Law, University of Missouri, 1935-37; George Washington University, summer 1937; Professor of Law, Duke University, since 1937.

## CHARLES LUCIEN BAKER LOWNDES, A.B., LL.B., S.J.D.

## PROFESSOR OF LAW

A.B. 1923, Georgetown University; LL.B. 1926, S.J.D. 1931, Harvard University; general practice, 1926-27; Assistant Professor of Law, Georgetown University, 1927-28; Professor of Law, Georgetown University, 1928-30; research fellow, Harvard Law School, 1930-31; Professor of Law, Georgetown University, 1931-34; Professor of Law, Duke University, since 1934.

## DOUGLAS BLOUNT MAGGS, A.B., J.D., S.J.D.

## PROFESSOR OF LAW

A.B. 1922, J.D. 1924, University of California; S.J.D. 1926, Harvard University; general practice, 1924-25; Assistant Professor of Law, University of California, 1926-27; Professor of Law, University of Southern California, 1927-30; Visiting Professor of Law, Columbia University, 1928-29; Yale University, second semester, 1935-36; University of California, summer 1927; Cornell University, summer 1928; University of Chicago, summer 1929; Stanford University, summer 1935; University of North Carolina, summer 1936; Professor of Law, Duke University, since 1930.

## MALCOLM McDERMOTT, A.B., LL.B.

## PROFESSOR OF LAW

A.B. 1910, Princeton University; LL.B. 1913, Harvard University; general practice, 1913-30; Dean, College of Law, University of Tennessee, 1920-30; University of Southern California, summer 1929; Professor of Law, Duke University, since 1930.

## J. DOUGLASS POTEAT, A.B., LL.B., J.S.D.

## PROFESSOR OF LAW

A.B. 1923, LL.B. 1926, Furman University; J.S.D. 1933, Yale University; general practice, 1926-30, 1933-36; Associate Professor of Law, Furman University, 1929-30; Professor of Law, Furman University, 1930-33; Professor of Law, Duke University, since 1936.

## WILLIAM R. ROALFE, LL.B.

## LAW LIBRARIAN

LL.B. 1922, University of Southern California; general practice, 1923-25; Law Librarian, University of Southern California, 1927-30; President, American Association of Law Libraries, 1935-36; Law Librarian, Duke University, since 1930.

## PAUL H. SANDERS, A.B., LL.B.

## ASSISTANT PROFESSOR OF LAW

A.B. 1931, Austin College; LL.B. 1934, Duke University; general practice, 1934; Assistant to Director of National Bar Program, American Bar Association, 1934-36; Assistant Professor of Law, Duke University, since 1936.

## EDWIN CONSTANT BRYSON, LL.B.

## ASSISTANT IN LEGAL AID CLINIC

University of North Carolina, 1922-26; LL.B. 1937, University of Oregon; general practice, 1927-30; Legal Aid Clinic Staff, Duke University, since 1931.

## MARY SIMMONS COVINGTON, A.B., LL.B.

## RESEARCH LIBRARIAN, SCHOOL OF LAW

A.B. 1905, Shorter College; LL.B. 1922, George Washington University; general practice, 1924-30; Research Librarian, School of Law, Duke University, since 1930.

## CHARLES HENDERSON MILLER, A.B., LL.B.

## ASSISTANT IN LEGAL AID CLINIC

A.B. 1928, LL.B. 1934, Duke University; Legal Aid Clinic Staff, Duke University, since 1931.

## HELEN MILDRED KENDALL, A.B.

## REGISTRAR

A.B. 1925, DePauw University; graduate work, University of Wisconsin, 1934; Registrar, School of Law, Duke University, since 1935.

**FACULTY COMMITTEES**

*Committee on Curriculum:* H. C. Horack, Chairman, Bryan Bolich, John S. Bradway, Douglas B. Maggs, Malcolm McDermott, Elvin R. Latty.

*Committee on Graduate Study:* Lon L. Fuller, Chairman, Bryan Bolich, H. C. Horack, Douglas B. Maggs, Douglass Poteat.

*Committee on Rules:* Charles L. B. Lowndes, Chairman, Bryan Bolich, David F. Cavers, Paul Sanders.

*Committee on Scholarship:* Malcolm McDermott, Chairman, Lon L. Fuller, Douglass Poteat.

*Committee on Emergency Aids and Loans to Law Students:* John S. Bradway, Chairman, T. D. Bryson, Mary S. Covington, Lon L. Fuller, Elvin R. Latty

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**LAW SCHOOL COMMITTEE OF THE BOARD OF TRUSTEES**

Willis Smith, Raleigh, North Carolina.

James A. Bell, Charlotte, North Carolina.

W. R. Perkins, New York City.

B. S. Womble, Winston-Salem, North Carolina.

## II. ORGANIZATION, EQUIPMENT, AND SPECIAL ACTIVITIES

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### HISTORY AND ORGANIZATION

Legal instruction in Trinity College dates from 1850, but it was not until 1868 that professional training in law was offered. The two chairs in the Department of Law were those of National and Constitutional Law, and Common and Statute Law. President Braxton Craven occupied the former from 1868 until his death in 1882. Outstanding members of the bench and bar were specially engaged, in given years, to lecture on particular subjects. Complete instruction was given "by daily lectures and regular examinations," and students were "fully prepared to obtain license."

In 1882 the Department of Law was discontinued. In 1891 instruction in law was resumed, with the appointment of the Honorable A. C. Avery, Associate Justice of the Supreme Court of North Carolina, as dean of the Law School, and continued until 1894.

The School of Law of Trinity College was founded in the summer of 1904 upon an endowment established by James B. Duke and Benjamin N. Duke. Samuel Fox Mordecai organized the School and was its dean until his death in 1927. Its establishment set a new standard in Southern legal education in that it was the first school to require college work as preliminary to law study. It required the completion of two years of college work as prerequisite to entrance, the case method was used as the basis of instruction, and the completion of three years of resident study was required for a law degree.

In 1924 the School of Law of Trinity College became the Duke University School of Law pursuant to the establishment of the Duke Endowment. In 1930 the School was moved into its new building, the Faculty and Library were greatly increased, and the activities of the School broadened. In 1931 the entrance requirement was raised from two to the present requirement of three years of college work. The School of Law is a member of the Association of American Law Schools and is on the "Approved List" of the American Bar Association.

The ideas of the founder with reference to the University and its training of lawyers are thus expressed in the indenture and deed of trust establishing the Duke Endowment:

I have selected Duke University as one of the principal objects of this trust, because I recognize that education, when conducted along sane and practical, as opposed to dogmatic and theoretical lines is, next to religion, the greatest civilizing influence. I request that this institution secure for its officers, trustees and faculty, men of such outstanding character, ability and vision as will assure its attaining and maintaining a place of real leadership in the educational world, and that great care and discrimination be exercised in admitting as students only those whose previous record shows a character,

determination and application evincing a wholesome and real ambition for life. And I advise that the courses at this institution be arranged, first, with special reference to the training of preachers, lawyers and physicians, because these are most in the public eye, and by precept and example can do most to uplift mankind.

### PURPOSES AND METHOD OF INSTRUCTION

The School of Law offers such courses in its curriculum as will provide an adequate preparation for the practice of law in any state. Through facilities for study and research, training is afforded for those desiring to specialize in particular branches of the law. In addition, several courses are offered for the benefit of students intending to practice in North Carolina.

It is conceived that the trust imposed by the Duke indenture cannot be discharged by the mere instruction of the student in the rules and principles of law which have received acceptance in a single state or in common law jurisdictions generally. The method of legal education employed in the School of Law, by compelling analysis of judicial opinions and inquiry into the various legal and non-legal considerations underlying them, acquaints the student not only with legal doctrine, but also with the judicial process and the role of the courts as creative agencies in social development.

The curriculum has been arranged with a view to insuring not only a balanced selection of courses in the first two years of study, but also an opportunity for some degree of specialization in the third year so that by intensive work in a single field the student may acquire a degree of mastery of its problems. The increasing interrelation of the economic and political problems in the life of the nation and the consequent responsibility of the lawyer in effecting the necessary adjustments are recognized in an ample offering of courses in which special consideration is given to the work of the legislative and administrative agencies of government.

To provide scope for creative work by the student, seminar courses and the courses in Current Decisions are offered. To achieve balance between intellectual discipline and that practical training which the young lawyer is otherwise left to obtain at the expense of his clients, courses are offered in Research and Briefing and Practice Court, and the third-year class participates in the work of the Legal Aid Clinic.

Through the organization of the student body in a Bar Association, a medium is afforded for extracurricular activity designed to awaken in the student a sense of his responsibilities as a member of his profession and to familiarize him with a type of organization through which some contribution to the well-being of his profession and society may be made.

The courses of study offered in the School of Law are described at pages 26 to 32 of this bulletin.



### THE LAW SCHOOL BUILDING

The Law Building, like all other structures on the main campus of Duke University, is in Tudor Gothic style of colorful Cambrian stone from the Duke University quarries. It was occupied by the School of Law for the first time in September, 1930. In it are classrooms, seminar rooms, offices for Faculty and Staff, quarters for the Legal Aid Clinic and for the Duke Bar Association, a courtroom equipped for trial court and appellate court sessions, and the Law Library.

### THE LAW LIBRARY

The Law Library contains a collection of almost sixty thousand volumes and is the largest law school library in the South. It consists of American and English statutory and case law; a collection of Continental Law materials; treatises, digests, encyclopedias; the various selected case series; a comprehensive collection of legal periodicals; and publications in the fields of history, economics, government, and the other social sciences, supplemental to the strictly legal materials. The Library receives every current legal periodical of general interest printed in the English language.

There are several thousand additional volumes of a legal nature in the main library building, immediately adjoining the Law School, as well as the general collection of nearly a half million volumes, which includes government documents and works on the social sciences, to all of which the law students and Faculty have convenient access.

### THE LEGAL AID CLINIC

A Legal Aid Clinic was organized at the School of Law in 1931 under the direction of Professor John S. Bradway, Secretary of the National Association of Legal Aid Organizations, who had directed similar undertakings in Philadelphia and Los Angeles. The purpose of the Clinic is threefold: to give the student experience in handling actual cases; to develop creative skills, techniques and mental habits; to encourage a sense of responsibility to client, court, profession and community. The student is obliged to synthesize his theoretical knowledge in applying it to concrete situations which may often cut across course boundaries. He is trained in the technique of fact-gathering, the strategy of a law suit, the handling of clients, and the management of a law office. Classroom work is given, supplementing the handling of actual cases. The practice in the Clinic is of a sort calculated to stress the ethical responsibilities of the lawyer and the social implications of his work. The latter aspect of this work is developed further by contacts established between the Clinic and various agencies of social welfare in North Carolina.

The Legal Aid Clinic is in effect a large, well-rounded law office offering the student experience in interviewing clients, investigation of facts, preparing cases for adjustment or for trial in court, briefing, and other tasks familiar to the practicing attorney. Approximately three hun-



dred cases a year are received by the Clinic. Only those applicants who are unable to pay counsel fees and only those cases where there is no opportunity for a contingent fee are accepted by the Clinic.

The activities of the Clinic are centered in a suite of offices in the Law School Building. In addition to the Director, a staff of four members of the North Carolina State Bar assist in the educational activities of the Clinic and in representing its clients in court proceedings. Work in the Legal Clinic is required of members of the third-year class.

### THE PRACTICE COURSE

The practice course in the School of Law is under the direction of Judge T. D. Bryson, for eight years Judge of the Superior Court of the Twentieth Judicial District of North Carolina. The object of the course is to offer third-year students an opportunity to visualize by actual experience the application of the principles of law imparted in other courses.

The course features trial court practice in both civil and criminal actions, appellate practice, the drawing of contracts and wills, making abstracts of title, and drafting of other legal papers incident to the work of the active legal practitioner. In order that the work may correspond to the work of a trial court, a courtroom with the usual appointments, including judge's bench, jury box, stenographer's and clerk's desk, bar, etc., has been provided.

### LEGAL PERIODICALS

The School of Law publishes a quarterly, *Law and Contemporary Problems*, under the editorship of Professor Cavers. This periodical, now in its fifth volume, presents in each issue a symposium on a problem of current legal importance, in which the interrelated social and economic, as well as legal, factors are discussed by writers of competence in these respective fields. Where student research may contribute to the understanding of the legal aspects of such problems, student writings are accepted for publication. The topics discussed in the first four volumes of *Law and Contemporary Problems* include food and drug control, low-cost housing, agricultural readjustment in the South, federal criminal laws, industrial and group-life insurance, instalment selling, migratory divorce, expert testimony, social security legislation, real property tax collection, the compensation of the motor accident victim, the Securities Act of 1933, price discrimination and price cutting, and farm tenancy legislation.

*Law and Contemporary Problems* has met with an encouraging response in its first four years. The continuing, nation-wide demand for its issues has already necessitated second printings of eight issues and a third printing of two. In addition to lawyers and law libraries, it counts many interested laymen and public and general university libraries among its subscribers. Issues have been frequently and favorably reviewed, and articles reprinted in other journals. It has been used as a source of mate-

rial for university classroom study in several schools. The Social Security Board has ordered over fifteen hundred copies of the social security and industrial life insurance issues for use by its staff and in its personnel training courses.

The Duke Bar Association has published since 1933 the *Duke Bar Association Journal* in which appear reports of addresses made before the Association by distinguished guests, proceedings of the Association at its regular meetings, and items of interest concerning the School. To afford a medium for the publication of the student notes and comments on recent important decisions prepared in the Current Decisions course without necessitating the inclusion in the quarterly of the department of student work usual in "law reviews," the *Journal* publishes such notes and comments as are deemed by the editors to be of special merit. Professor Cavers serves as adviser to the student editorial board of the *Journal*.

#### THE DUKE BAR ASSOCIATION

The Duke Bar Association was established in the spring of 1931. It is composed of all the students of the Law School and is organized along the lines of the American Bar Association. Its purpose is to introduce the student to the problems considered by the bar in professional organizations and to develop professional consciousness and responsibility. It publishes the *Duke Bar Association Journal*, described in the preceding section. Its activities are carried on by the students with the co-operation of Dean Horack of the Law Faculty as general adviser.

### III. GENERAL INFORMATION

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#### MATRICULATION, REGISTRATION, AND ENROLLMENT

On the day of registration, September 21, 1938, the applicant must obtain from the Dean of the Law School an admission card, indicating that he is entitled to register. Registration is conducted in the Law Building. All students, both old and new, are required to register at the beginning of each semester, at which time class schedule and course cards must be filled out and approved. Students matriculating in either semester at a date later than that prescribed in this catalogue shall pay to the Treasurer a penalty of \$5.00 for late registration. Instruction will begin in all classes on Thursday, September 22, 1938.

All students are admitted subject to the rules of the University and of the School of Law, and continuance in the School is conditioned upon the observance of such rules.

#### FEES AND EXPENSES

Tuition and registration fees are due at the beginning of each semester. The matriculation fee is \$25.00 a semester. The tuition fee is \$100.00 a semester. A damage fee of \$1.00 is collected at the beginning of the first semester only, an athletic fee of \$5.00 at the beginning of each semester, a library fee of \$5.00 each semester, and a medical fee of \$5.00 each semester.

Payment of the athletic fee entitles the student to admittance to all athletic events on the campus. The graduation fee, payable by all students to whom a degree is awarded, is \$10.00. Board may be secured at approximately \$25.00 per month at the Union.

The payment of the medical fee entitles a student to full medical and surgical care, with the exceptions noted below. This service is under the direction of the University Physician with the co-operation of the Staff of Duke Hospital. It includes hospitalization, medical and surgical care, drugs, dressings, X-ray studies, and ward nursing. A charge for board is made at the same rate as in the University dining halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes, treatment of teeth and of all chronic conditions, such as the removal of diseased tonsils, are not included in this service. The cost of any necessary braces and orthopedic appliances as well as of special nursing must be borne by the student.

Furnished double rooms may be secured in the University dormitories on the West Campus at \$62.50 per person per semester. A few single rooms are available at \$75.00 per semester. There are a very limited number of double rooms on the East Campus (about a mile and a half from the Law Building) at \$30.00 to \$50.00 per person per semester.

These charges include heat, light, water, and janitorial service but do not include pillows or bed clothing of any kind.

Since the number of dormitory rooms is not sufficient to accommodate all students, law students are advised to make early application. Assignment of rooms is made soon after the middle of May. Thereafter only such rooms are available as are released by the persons to whom they have been assigned, and these will then be reserved in the order in which applications have been made. The applicant should state that he has been accepted for admission to the School of Law. All dormitory rooms are to be occupied under the rules and regulations established by the University. Law students are not required to live in the University dormitories.

The *General Bulletin* of the University contains the following statements concerning the reservation of dormitory rooms:

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of \$25.00 must accompany the application for a room. The reservation fee is deducted from the room charges at the time of registration for the fall semester. An applicant who is accepted and has a room reserved is not entitled to a refund of the reservation fee unless the request is made on or before August 1.

A resident student in order to retain his room for the succeeding year is requested to make application accompanied by a reservation fee of \$25.00 between April 15 and May 15 at the office of the Director in the Business Division. All rooms which have not been reserved on or before May 15 will be considered vacant for the succeeding year and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

Each student is expected to supply necessary sheets, blankets, pillows, rugs and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

The cost of law books will average, through the three years, between \$20.00 and \$30.00 per semester.

### SCHOLARSHIPS AND STUDENT AIDS

A limited number of scholarships covering tuition and matriculation fees (\$250) are available to first-year students, graduates of approved American universities and colleges, who are in need of such assistance. Applicants must have made excellent records in their college work and must show unusual promise of success in the study of law.

Applications for scholarships should be presented before May 1 to the Dean of the Law School, together with a transcript of college work and letters of recommendation from responsible persons, certifying to the character and fitness of the applicant.

Other scholarships are awarded, as funds may permit, to students who have spent a year or more at the Law School. There are also a number

of positions as assistants in the Law Library and as research assistants which are open to students particularly in their second or third year, who do not receive other aids from the University.

Scholarships are, in addition, granted each year to the three students with the best scholastic records in the first- and second-year classes. Under this plan scholarships were awarded for 1937-38 to the following members of the first-year class of 1936-37: Gustav B. Margraf, Cape Girardeau, Mo.; Robert W. Bogue, Parker, S. D.; Fleming B. Bomar, Spartanburg, S. C.; and to the following members of the second-year class in that year: Thomas E. Butterfield, Jr., Bethlehem, Pa.; Edward B. Bulleit, Gettysburg, Pa.; James E. Sapp, Jr., Albany, Ga.

The University administers certain endowed loan funds for the benefit of students who are not financially able to meet their expenses, for the purpose of aiding worthy students who have established a satisfactory record at the School to continue their education.

Two funds have been provided out of which small loans may be made to tide students over temporary financial emergencies arising during the course of the year. One of these was supplied by the Law School Guild of the Law Faculty and is limited as to amount and duration of loan. The other is due to the generosity of Mr. P. Frank Hanes of the Winston-Salem bar and is limited to the needs of selected students. These funds are administered by a committee of the Faculty.

#### AWARDS

*Willis Smith Prize.* Mr. Willis Smith, a member of the Raleigh bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of law school work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose. The winner of the prize for 1932 was Jeter S. Ray, Newport, Tenn.; for 1933, William B. McGuire, Jr., Franklin, N. C.; for 1934, Robert Gilpin Seaks, Harrisburg, Pa.; for 1935, Erle Pettus, Jr., Birmingham, Ala.; for 1936, Edward Rubin, Los Angeles, Calif.; and for 1937, William R. Perdue, Jr., Macon, Ga.

#### ORDER OF THE COIF

A chapter of the Order of the Coif, national legal scholarship society, has been established at Duke University School of Law. Its purpose is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." Election is restricted to the 10 per cent of the Senior Class who have attained the highest rank in their law school work. Those receiving this honor in the graduating class of 1937 were Lyman H. Brownfield, Columbus, O.; Richard M. Nixon, Whittier, Calif.; and William R. Perdue, Jr., Macon, Ga.



### CONDUCT OF STUDENTS

The University expects of its students loyal and hearty co-operation in developing and maintaining high standards of conduct as well as of scholarship. The University, therefore, reserves the right, and matriculation by the student is a concession of this right, to compel the withdrawal of any student whose conduct at any time is not satisfactory to the University, even though no specific charge be made against the student.

### RECREATIONAL FACILITIES

The University is located about two miles from the business district of Durham on wooded hills constituting part of the five-thousand-acre Duke Forest which is maintained by the School of Forestry. Within a short distance from the campus are facilities for golf, horseback riding, and woodland hiking. These activities are available the year round in the mild climate of the Piedmont section of North Carolina. Students of the Law School are entitled to the use of the University gymnasium, tennis courts, swimming pool, and similar privileges without cost. Motion pictures are shown in the Page Auditorium twice a week, and concert programs, recitals, lectures, and plays are presented frequently.



## IV. ADMISSION OF STUDENTS

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### DIRECTIONS TO APPLICANTS FOR ADMISSION

Applications should be made on the prescribed Law School application blanks which will be sent upon request, and no application is complete until all required documents are on file. Each application for regular or advanced standing must be accompanied by a complete transcript of record and evidence of graduation or right to honorable withdrawal from the institution from which credit is offered. To the application blank should be attached a recently made personal photograph. Letters from responsible persons, certifying to the character and ability of the applicant, are required.

It is desired that students may be selected who give promise of leadership in some of the various phases of professional activity. It is recognized that such selection is difficult. However, graduation from Duke University School of Law is intended to constitute evidence of capacity for superior work in some branch of the profession of law. Applicants for admission and their sponsors are requested to keep this fact in mind.

### REQUIREMENTS FOR ADMISSION

Any person may be admitted as a candidate for the degree of Bachelor of Laws (1) who is a graduate of a college of approved standing, or (2) who has completed in a college of approved standing work equivalent in number of units to three-fourths of that required for graduation and whose college work in its entirety shows an average grade equal to that required for graduation (the requirement in each case being determined by the regulations of the college where the work was taken).

### COMBINED COURSE

A number of colleges, upon application by their students, have permitted those who have completed three years of undergraduate work, to enter the Law School of Duke University and upon the satisfactory completion of the first year of law school work to receive their Bachelor of Arts degrees from such colleges. It is suggested that students desiring to enter Duke University School of Law, make inquiry of their proper college authorities regarding this point.

A student in either of the Liberal Arts Colleges of Duke University may complete in six years a combined course wherein he will have received his academic degree and also the degree of Bachelor of Laws. This arrangement is made possible under the following recommendations of the Faculty of the Arts Colleges:

Students who have completed with not less than a "C" average at least ninety-six semester-hours of undergraduate work in the pre-legal group of studies in Duke University may on the approval of the Dean of the Undergraduate College transfer to this Law School and become eligible for the Bachelor's degree on the satisfactory completion of the full twenty-six semester-hours of work of the first-year class in this School.

It is understood that this provision shall apply solely to eligible Duke University undergraduates, and that not less than the full first-year's work of the Law School will be acceptable for credit towards the Bachelor's degree.

It should be noted that while the Combined Course plan of securing two degrees is restricted to those who have taken the "pre-legal course," general admission to the Law School is not so restricted.

### ADMISSION TO ADVANCED STANDING

Any person, who has complied with the requirements for admission set forth in this announcement, prior to the commencement of his law study, who shall present evidence of the satisfactory completion of any part of the curriculum of the Law School at any law school which is a member of the Association of American Law Schools, and who is eligible for readmission to the law school from which he proposes to transfer, may be admitted to advanced standing, subject to such rules as would be applicable to students in this School having a comparable scholastic record. Provisional credit for courses so completed shall be given, final credit for such work to be conditioned on the completion of at least one full year of law study in this School with an average of at least five points above the passing grade. Adjustment of credit for work done in such other law schools may be by vote of the Faculty.

### CANDIDATES FOR GRADUATE DEGREES

Applications for admission to graduate study should be addressed to the Dean of the Law School and should include transcripts of records of legal and pre-legal work. For the requirements for the graduate degrees see pages 24 and 25.

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Further information will be sent upon request. Please address

THE DEAN OF THE SCHOOL OF LAW  
DUKE UNIVERSITY  
Durham, North Carolina

## V. REQUIREMENTS FOR BACHELOR OF LAWS DEGREE—STUDENT PROGRAMS

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### BACHELOR OF LAWS DEGREE

Upon favorable recommendation of the Faculty, the degree of Bachelor of Laws will be conferred on students who shall have successfully completed three years' study of law, the last full year of work immediately preceding the granting of such degree having been completed, except under extraordinary circumstances, in this School.

A student shall be deemed to have completed successfully three years' study of law if during this period he has

(1) secured a passing grade in courses aggregating the number of semester-hours in the first-year program of study plus forty-eight semester-hours ;

(2) secured in every required course a grade not requiring repetition thereof ; and

(3) secured an average grade at least five points above passing in all work taken other than first-year courses, or, if such grade is lower than that above specified, an average grade of five points above passing in all work taken.

Students who shall have spent only their third year of study in residence in this School must have received an average grade at least five points above passing for that year.

### THE FIRST-YEAR PROGRAM

All of the first-year courses are required for graduation, and no second- or third-year courses may be elected until the student has secured grades not requiring repetition of any first-year courses or has made provision for the completion thereof.

The following courses comprise the work of the first year :

<i>Subject</i>	<i>Hours per semester</i>	
Chattel Transactions .....	2	2
Contracts .....	3	3
Criminal Law and its Administration .....	2	2
Torts .....	3	2
Introduction to Procedure .....	2	
Legal Bibliography .....	1	
Orientation .....		
Agency .....		2
Possessory Estates .....		2
	13	13

## SECOND- AND THIRD-YEAR PROGRAMS

The course in Research and Briefing is required of those second-year students who have not been selected to take the course in Current Decisions I. The course in Legal Aid Clinic is required of those third-year students who have not been selected to take the course in Current Decisions II. The course in Legal Ethics is required of all third-year students. For descriptions of the content of these courses, see pages 26-32.

With the exceptions noted above, all courses offered for the second and third years are elective. For the guidance of second-year students in 1938-39, the Faculty recommends the inclusion of the following courses in their programs of study:

<i>Subject</i>	<i>Hours per semester</i>	
Constitutional Law .....	2	3
Equity .....	2	2
Pleading (Prerequisite to Practice) .....	2	1
Research and Briefing .....	1	1
Bills and Notes .....	3	
Conveyancing .....	3	
Business Associations I .....		3
Credit Transactions .....		4
Trusts .....		3
	15	15

For the student who wishes to take in his second year, courses other than those listed above, the following are suggested as suitable for study in the second year:

<i>Subject</i>	<i>Hours per semester</i>	
Criminal Procedure .....	2	
Family Law .....	2	
Landlord and Tenant .....	2	
Municipal Corporations .....	2	
Future Interests .....		3
Wills and Administration of Estates .....		3

It should be distinctly understood that the courses in this second list are not suggested as either more or less suitable for study in the third year than those not included therein. In the selection of courses in addition to or in substitution for those recommended above, the student should consult the course groupings appearing at another place in this bulletin, so that he may choose those courses which will contribute most directly to his work in the field of study to which he wishes to devote his major efforts in the third year. The student intending to enter the general practice of law is cautioned, however, not to sacrifice, through undue concentration, the acquisition of a broad foundation for his subsequent activities.

The courses included in the above lists and all other courses offered are described at pages 26 to 32 of this bulletin. The courses offered which are not included in the above lists comprise:

<i>Subject</i>	<i>Hours per semester</i>	
Evidence .....	2	2
Practice .....	2	2
Taxation .....	2	2
Administrative Law .....	2	
Business Associations II .....	3	
Conflict of Laws .....	3	
Debtors' Estates .....	3	
Insurance .....	2	
Legal History .....	3	
Legislation .....	2	
Readings in Jurisprudence .....	2	
Damages .....		2
Family Law Seminar .....		2
Federal Jurisdiction and Procedure .....		2
Labor Law .....		2
Legislation Seminar .....		2
North Carolina Statutes .....		2
Regulation of Business .....		3
Roman Law: Comparative Law of Obligation .....		2
Seminar in Legal History .....		2

## **VI. GRADUATE WORK IN LAW**

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### **GRADUATE DEGREES**

The School of Law confers two graduate degrees, the degree of Master of Laws (LL.M.) and the degree of Doctor of Juridical Science (S.J.D.).

#### **REQUIREMENTS FOR ADMISSION TO GRADUATE STUDY**

Any person who shall have received the first degree in law from a law school qualified for membership in the Association of American Law Schools and whose college course and law course combined shall have occupied at least six years, may be admitted as a candidate for the degree of Master of Laws. In exceptional cases an applicant who does not meet all the above requirements may be admitted, on vote of the Faculty, to candidacy for this degree where he is able to demonstrate that he is specially qualified, as by reason of practice or teaching.

Any person holding the degree of Master of Laws from this or any other law school which is qualified for membership in the Association of American Law Schools may be admitted by the Faculty to candidacy for the degree of Doctor of Juridical Science provided he completed the work for the Master's degree with distinction.

#### **THE DEGREE OF MASTER OF LAWS**

Upon favorable recommendation of the Faculty, the degree of Master of Laws will be conferred on students who have successfully completed during a period of residence at this School totaling at least one year a course of study approved by the Committee on Graduate Study.

The courses of study leading to this degree are designed to provide for the needs of two classes of students: (1) graduates of approved law schools who desire a fourth year of study for the purpose of undertaking an intensive study of some specialty, or who desire to broaden their legal education through the study of such subjects as jurisprudence and legal history; (2) graduates of approved law schools who desire to teach law or engage in legal research and who intend to become candidates for the degree of Doctor of Juridical Science.

One year of resident study is required for the degree of Master of Laws. No thesis is required. The course of study is prescribed by the Committee on Graduate Study after consultation with the individual student. Opportunity will be afforded the student to include in his program such second- and third-year law courses, not already completed, as are desirable for the rounding out or supplementing of his previous training. In some cases, courses in other departments of the University may be included. In the case of students whose interests lie in further preparation for practice, the course will normally include registration in subjects



totaling twelve hours each semester. In the case of students interested primarily in legal research, a lighter schedule, so far as enrollment in formal courses is concerned, may be arranged. In cases where less than twelve hours' work is prescribed for either semester, the Committee on Graduate Study may require that the student complete the work undertaken with a grade considerably higher than that required of candidates for the first degree in law.

#### **THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE**

Upon favorable recommendation of the Faculty, the degree of Doctor of Juridical Science will be conferred on students admitted to candidacy for that degree who complete and submit a monograph or series of essays suitable for publication and deemed by the Faculty to be of distinguished character. At least one academic year must elapse between the awarding of the Master's degree and the awarding of the degree of Doctor of Juridical Science. Students who have received the degree of Master of Laws from another law school must spend at least one year engaged in research at this School and may in addition be required to complete a course of study prescribed by the Committee on Graduate Study.

## VII. COURSES OFFERED

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### 1. GENERAL COURSES

**Orientation.** A course designed to introduce the beginning student to the study of law. Nine lectures by members of the Faculty, first four weeks, first semester.

**Torts.** Liability in damages for injuries to person and property inflicted intentionally, negligently, or innocently; justification and excuse; contributory negligence; proximate cause. Liability for false representations, defamation, inducing breach of contract, interference with business relations, unfair competition, strikes, etc. Casebook to be announced. Three hours a week, first semester; two hours, second semester. PROFESSOR MAGGS

**Equity.** Powers of Courts of Equity and principles governing their exercise, with special emphasis on injunctions; general scope of the remedy of specific performance; part performance and the Statute of Frauds; defences to specific performance; bills of peace, interpleader, *quia timet*, and to remove cloud on title. Cook, *Cases on Equity*, one-volume edition (2d ed.). Two hours a week throughout the year. PROFESSOR HORACK

**Trusts.** The nature, creation, and elements of a trust; charitable trusts; resulting and constructive trusts; administration of trusts; liabilities to third persons; transfer of the *cestui's* interest; persons bound by a trust; termination of a trust. Scott, *Cases on Trusts* (2d ed.). Three hours a week, second semester. PROFESSOR LOWNDES

**Conflict of Laws.** A study of the territorial jurisdiction of courts, the enforcement of foreign judgments, and the problems arising when the operative facts of a case are connected with jurisdictions having different rules of law. Cheatham, Dowling, and Goodrich, *Cases and Other Materials on Conflict of Laws*. Three hours a week, first semester. PROFESSOR CAVERS

**Damages.** The measurement of damages with special emphasis upon the application of the standards of value and certainty, and upon the relation between the procedural and substantive aspects of damage litigation. McCormick, *Cases on Damages*. Two hours a week, second semester. PROFESSOR FULLER

**Family Law.** A seminar approach to the cases, statutes, and sociological theories covering the contract to marry, its formation and breach, marriage, annulment; divorce, separation; property rights; and international jurisdiction. Selected materials. Two hours a week, first semester. PROFESSOR BRADWAY

**Family Law Seminar.** A seminar approach to the efforts of the social sciences, including the law, to deal with the intricate and perplexing problems of the modern family. Readings are assigned in legal and sociological material. Class discussions are based upon cases as handled by domestic relations courts. The work is built around a specific legislative project, such as a model domestic relations court statute, a model marriage law, etc. Written reports, on topics selected by the student, required in lieu of an examination. Family Law is prerequisite. Two hours a week, second semester. PROFESSOR BRADWAY

**North Carolina Statutes.** A study of selected statutes of North Carolina with discussion of their application, and an analysis of the decisions of the Supreme Court of North Carolina construing them. Two hours a week, second semester. PROFESSOR BRYSON

## 2. BUSINESS COURSES

**Contracts.** Modes of enforcing promises; the relation of contract law to deceit and estoppel in pais; the formation of contracts (offer and acceptance, consideration, the seal); conditions; impossibility; repudiation; third party beneficiaries; assignment; joint contracts; illegal bargains; the Statute of Frauds. The course deals generally with the remedies available in case of the breach of a promise and does not exclude those sometimes classed as "quasi-contractual" (e.g., restitution). Corbin, *Cases on Contracts* (2d ed.) and mimeographed materials. Three hours a week throughout the year.

PROFESSOR FULLER

**Chattel Transactions.** Property in chattels, application of the concepts of possession and title in the law of personal property; transfer of chattels by bailment, gift and sale; contracts of sale; warranties; rights and remedies of the buyer and seller. Special attention is given in this course to judicial process and technique. Problems of chattel mortgages, pledges, and of sales financing are not considered in this course but are reserved for the course in Credit Transactions. Casebook and selected materials to be announced. Two hours a week throughout the year.

PROFESSOR LATTY

**Agency.** Formalities incident to the creation and execution of the agency; construction of the grant of authority; duties of the agent to the principal; rights of the agent against the principal; claims of third persons for torts other than fraud; claims of third persons arising out of contracts and fraud; ratification; undisclosed principal; termination of the agency; construction of equivocal contracts as contracts of agency or contracts of sale. Magill and Hamilton, *Cases on Business Organization*. Two hours a week, second semester.

PROFESSOR LOWNDES

**Bills and Notes.** Negotiable and non-negotiable notes, bills of exchange, and checks; the legal effects of negotiability; the liabilities of primary and secondary parties; payment and discharge. Problems arising from the use of accommodation paper are not treated in this course but are taken up in Credit Transactions. Britton, *Cases on Bills and Notes* (2d ed.). Three hours a week, first semester.

PROFESSOR LOWNDES

**Business Associations I.** A study of the legal problems involved in the formation of business associations, with special emphasis on private corporation and partnership problems; the characteristics and the internal organization of such associations; the control and management of the going concern; and to some extent, the distribution of its profits or losses and the termination of the enterprise. Frey, *Cases and Statutes on Business Associations*. Three hours a week, second semester.

PROFESSOR LATTY

**Business Associations II—Finance.** A study of the distribution of profits and capital by corporations, partnerships and other business organizations; the expansion of the business enterprise; the assembly of funds; the types of securities and their attributes; the authorization, issuance, and marketing of securities, including the provisions of relevant state or federal legislation. Mimeographed and other selected materials, and Frey, *Cases and Statutes on Business Associations*. Three hours a week, first semester.

PROFESSOR LATTY

**Credit Transactions.** Consideration of suretyship and guaranty, mortgages, letters of credit, trust receipts, contracts of accommodation parties on bills and notes, real property and chattel mortgages, pledges, conditional sales. Sturges, *Cases on Credit Transactions* (2d ed.). Four hours a week, second semester.

PROFESSOR POTEAT

**Debtors' Estates.** A comparative study of the various legal devices available for the administration of debtors' estates—compositions, assignments for the benefit of creditors, receiverships and bankruptcy including proceedings for debtors' rehabilitation and corporate reorganization provided by the recent amendment to the National Bankruptcy Act. Sturges, *Cases on the Administration of Debtors' Estates* (2d ed.). Three hours a week, first semester.

PROFESSOR POTEAT

**Insurance.** The function and theory of insurance; personal insurance (life and accident); property insurance; insurable interest; warranties and representations; assignment; waiver and estoppel. Goble, *Cases on Insurance*. Two hours a week, first semester.

ASSISTANT PROFESSOR SANDERS

**Public Utilities.** See Public Law Courses, page 29, for description. Three hours a week, first semester.

[Not to be given, 1938-39.]

**Regulation of Business.** See Public Law Courses, page 30, for description. Three hours a week, second semester.

PROFESSOR CAVERS

### 3. PROPERTY COURSES

**Possessory Estates.** Historical introduction to real property with a detailed consideration of the modern law of possessory estates in land, including the fee simple, the fee tail, the life estate, the estate for years, concurrent estates, and the incidents of possessory ownership relative to water, lateral and subjacent support. Powell, *Cases on Possessory Estates*. Two hours a week, second semester.

PROFESSOR BOLICH

**Conveyancing.** Form and execution of deeds; description in deeds; recording statutes; adverse possession and prescription; incorporeal interests in land; covenants and agreements running with the land; estoppel by deed. Kirkwood, *Cases on Conveyances*, and selected materials. Three hours a week, first semester.

PROFESSOR BOLICH

**Landlord and Tenant.** Treatment of certain incidents of the modern law of leases relating to business, residential, and agricultural properties, including the creation of leases, their general characteristics, possession, transfer, covenants, rents, security devices, and termination. Jacobs, *Cases and Materials on Landlord and Tenant*. Two hours a week, first semester.

PROFESSOR BOLICH

**Future Interests.** Future interests in real and personal property; reversions; vested and contingent remainders; executory interests; rights of entry; possibilities of reverter; gifts to classes; powers; perpetuities; interpretation of wills and deeds as affecting the validity and characteristics of the interests created thereby. Powell, *Cases on Future Interests* (2d ed.). Three hours a week, second semester.

PROFESSOR BOLICH

**Wills and Administration of Estates.** Statutory schemes for the descent and distribution of intestate property; limitations upon liberty of testation; execution and revocation of wills; the will contest; appointment of personal representatives; their powers and duties in collection of assets, payment of debts, and distribution of decedents' estates; powers and duties of personal representatives and trustees in management of estates, including control of investments, allocation of receipts to principal or income; accounting and compensation. Mechem and Atkinson, *Cases on Wills and Administration*. Three hours a week, second semester.

PROFESSOR McDERMOTT

**Trusts.** See General Courses, page 26, for description. Three hours a week, second semester.

PROFESSOR LOWNDES

## 4. PUBLIC LAW COURSES

**Criminal Law and Its Administration.** The lawyer's function in the administration of criminal justice; the nature of crime; theories of punishment in the criminal law; general consideration of the criminal act and of the mental element in crime; specific offenses at common law and as developed by statutes; appropriate defenses in relation to the specific crimes. Harno, *Cases and Materials on Criminal Law and Procedure*; Hall, *Theft, Law and Society*. Two hours a week throughout the year. ASSISTANT PROFESSOR SANDERS

**Criminal Procedure.** See Procedure and Practice Courses, page 31, for description. Two hours a week, first semester. PROFESSOR BRYSON

**Constitutional Law.** Judicial protection against arbitrary governmental action; the history of the notion of a "higher law"; the concepts applied and the constitutional clauses relied upon; the development and application of particular doctrines protecting from arbitrary governmental action individuals with respect to their persons and individuals and corporations with respect to their property and business activities. The division of fields of control between the federal and the state governments. Casebook to be announced. Two hours a week, first semester; three hours, second semester. PROFESSOR MAGGS

**Administrative Law.** Quasi-legislative and quasi-judicial functions of administrative tribunals, boards, and officers. Constitutional limitations, growing out of the doctrine of the separation of powers and the doctrine of the non-delegability of legislative power, upon the creation and allocation of administrative functions. Practice and procedure before administrative tribunals, boards, and officers; constitutional limitations upon administrative procedure. Judicial control and review of administrative orders and decisions. Constitutional Law is prerequisite. Casebook to be announced. Two hours a week, first semester. PROFESSOR MAGGS

**Labor Law.** The National Labor Relations Act and related legislation. Federal and state anti-injunction statutes and their background. The law relating to strikes and the conduct of strikers, the labor agreement and the responsibility of unions. Landis, *Cases on Labor Law*, and selected materials. Two hours a week, second semester. ASSISTANT PROFESSOR SANDERS

**Legislation.** The interpretation of statutes; the subject matter and purpose of the statute; the context; associated words; parts of the statute in relation to the whole; extrinsic aids; statutes in relation to other statutes; statutes in relation to the common law; the applying of statutes; the operation and effect of statutes. Constitutional Law is prerequisite. DeSloovere, *Cases on Interpretation of Statutes*. Two hours a week, first semester. PROFESSOR McDERMOTT

**Legislation Seminar.** Special study and research with respect to specific legislative problems and projects, involving a complete survey of the nature and mechanics of the legislative process. Legislation is prerequisite. Selected materials. Two hours a week, second semester. PROFESSOR McDERMOTT

**Municipal Corporations.** The nature of municipal corporations; their external constitution; their internal constitution; their powers; their liabilities; remedies for and against municipal corporations. Stason, *Cases on Municipal Corporations*. Two hours a week, first semester. PROFESSOR McDERMOTT

**Public Utilities.** A study of the general scope of utility regulation; the respective powers of nation and state and the respective functions of commissions and courts in the regulatory process; competition and monopoly; service and facilities; liability; valuation and rates. Smith, Dowling and Hale, *Cases on Public Utilities* (2d ed.). Three hours a week, first semester.

[Not to be given, 1938-39.]



**Regulation of Business.** A study of the common law doctrines concerning restraint of trade, and of federal and state anti-trust statutes and other current legislation regulating the conduct of business. Casebook to be announced. Three hours a week, second semester.

PROFESSOR CAVERS

**Taxation.** The principal taxes are considered. Special stress is laid upon the federal tax system and the major federal taxes are analyzed in some detail. The course includes the constitutional law of taxation, both in its broader aspects and in its narrower incidence upon the particular types of taxes. Lowndes, *Cases and Materials on the Law of Taxation* (mimeographed). Two hours a week throughout the year.

PROFESSOR LOWNDES

## 5. JURISPRUDENCE COURSES

**Readings in Jurisprudence.** The purpose of this course is to acquaint the student with the main currents of thought in legal philosophy and jurisprudence since Aristotle. Especial emphasis will be placed on critical studies of legal methodology. Enrollment in the course is limited to five. Admission only with the consent of the instructor. Two credit hours. A one-hour discussion meeting will be held each week. First semester.

PROFESSOR FULLER

**Legal History.** A study of the development of fundamental English and American legal institutions, followed by a historical consideration of certain doctrines of the common law. Assigned readings and discussion meetings. Three credit hours. First semester.

PROFESSOR BOLICH

**Seminar in Legal History.** This course is designed for graduate students, and will be offered only upon recommendation of the Committee on Graduate Study. Hours and credit to be arranged with the instructor upon approval of said Committee.

PROFESSOR BOLICH

**Roman Law: Comparative Law of Obligations.** The course deals primarily with the Roman law of obligations, supplemented by references to the modern German, French, and Swiss law. Emphasis is placed on method rather than on content, and the primary object of the course is to give the student a better orientation in the modern American law of contracts and torts. Knowledge of a foreign language is not essential. Intended primarily for senior and graduate students. Admission only with the consent of the instructor. Two hours a week, second semester.

PROFESSOR FULLER

## 6. PROCEDURE AND PRACTICE COURSES

**Introduction to Procedure.** An introductory study of the most commonly used procedural devices by which disputes are brought before the courts for adjustment, and the techniques employed in the judicial process for effecting these adjustments, including the control of the trial court by appellate tribunals. The course will also include a study of modern reforms of pleading in so far as they are pertinent. Casebook or materials to be announced. Two hours a week, first semester.

PROFESSOR POTEAT

**Pleading.** Remedial law as applied in code jurisdictions. The form, theory, and classification of civil actions and special proceedings, together with a complete analysis of the several pleadings available in such actions and special proceedings. Throckmorton, *Cases on Code Pleading*. Two hours a week, first semester; one hour a week, second semester.

PROFESSOR BRYSON

**Practice.** The practical work of lawyers; drafting instruments; preparation of pleadings and trial briefs; the various trial methods and steps taken in the trial of the case; removal of cases from state to federal courts; noting and perfecting appeals; the appeal briefs; procedure in the Supreme Court. Selected materials. Two hours a week throughout the year.

PROFESSOR BRYSON



**Evidence.** Judicial notice; examination, competency and privilege of witnesses; rules of exclusion, with special emphasis on the hearsay rule; the parol evidence rule; supplementary topics. Morgan and Maguire, *Cases on Evidence*. Two hours a week throughout the year. PROFESSOR McDERMOTT

**Criminal Procedure.** A survey of the principles of criminal procedure as applied in the American courts. The leading proposals in the current reform movement are considered. Keedy, *Cases on Administration of the Criminal Law*. Two hours a week, first semester. PROFESSOR BRYSON

**Federal Jurisdiction and Procedure.** Functioning of federal courts including such topics as original jurisdiction, removal of causes, the statutory court, appellate jurisdiction of the Circuit Courts of Appeal and Supreme Court, rules of decision in the federal courts, the Conformity Act. Consideration will also be given to the general rules of practice and procedure for the District Courts and the Supreme Court of the District of Columbia promulgated by the Supreme Court of the United States. Casebook and materials to be announced. Two hours a week, second semester. PROFESSOR POTEAT

**Legal Ethics.** A seminar approach to the legal problems of the lawyer and the profession. Readings are assigned in legal biography, law reform, the history of the profession, legal aid work. Class discussions cover canons of ethics, statutes, cases, opinions of grievance committees dealing with the daily problems of the practicing lawyer. A written report is required on some phase of the reform of the administration of justice. Required of all third-year students. Selected materials. One hour a week, first semester.

PROFESSOR BRADWAY

**Legal Aid Clinic.** The objectives of the course are: to give the student experience in actual cases; to develop creative skills, techniques and mental habits; to encourage a sense of responsibility to client, court, profession and community. Students under supervision of attorneys and in co-operation with members of the Durham bar, court officials and social agencies in the community, engage, so far as students may, in the handling of actual cases from the first interview with the client until the final disposition of the problem by litigation or otherwise. In the first semester, class discussions are devoted to problems of office organization, interviewing clients, and planning a campaign in a legal case. Trial briefs are prepared for lawyers in active practice. In the second semester, the emphasis is on dealing with members of other professional groups as expert witnesses. Appellate briefs are written for lawyers in active practice. Exercises are provided in drafting legal documents. Opportunity is afforded for special work in fields of particular interest. The course affords practical applications of the principles of legal ethics and legal etiquette. Students are expected to demonstrate adaptability to office routine, dependability in action, maturity of legal judgment. Required of all third-year students except those selected for Current Decisions II. Bradway, *Handbook of the Legal Aid Clinic*. Two hours a week throughout the year.

PROFESSOR BRADWAY

**Bar Association Activities.** Advisory work in connection with voluntary student participation in the activities of the Duke Bar Association. Not for credit.

PROFESSOR HORACK

## 7. LEGAL RESEARCH AND WRITING

**Legal Bibliography.** A historical study of the development of law books with particular emphasis upon the more important sets and classes of volumes, together with actual practice in the use of the books themselves for the purpose of developing facility in legal research. One hour a week, first semester.

MR. ROALFE

**Research and Briefing.** Individual study of selected problems, involving the use of digests, encyclopedias, case reporter series, legal periodicals, etc.; the marshalling of authorities and preparation of memoranda of law, opinion, letters, trial and appellate court briefs, and related legal documents. Required of all second-year students except those selected for Current Decisions I. Selected materials. One hour throughout the year, in two sections.

PROFESSOR LATTY

**Current Decisions I.** In the first semester, instruction is given in the preparation of comments on appellate court decisions by means of class analysis and criticism of comments published in law reviews and similar comments prepared by the class. In the second semester, each student, after thorough research and consultation with Faculty members, prepares two comments on decisions selected by the class from advance sheets. Open only to, and, if elected in lieu of Research and Briefing, required of superior second-year students declared eligible by the Faculty. One hour throughout the year.

PROFESSOR CAVERS AND THE STAFF

**Current Decisions II.** Preparation, as in Current Decisions I, of comments and longer notes on significant recent decisions. Open only to, and, if elected in lieu of Legal Aid Clinic, required of superior third-year students declared eligible by the Faculty. One hour throughout the year.

PROFESSOR CAVERS AND THE STAFF

**Student Editorial Work.** Selected students, members of the class in Current Decisions, may undertake the preparation of studies for publication in *Law and Contemporary Problems* under the supervision of the editor. Credit for this work will be given in Current Decisions.

PROFESSOR CAVERS

The foregoing courses as offered for the year 1938-39 are subject to such changes as may be found necessary.

Upon recommendation of the Committee on Graduate Study, seminars not listed in the bulletin may be created or arrangements made for supervision of special research by individual students in any subject.

## VIII. STUDENTS

### ENROLLMENT FOR 1937-38

#### FIRST-YEAR CLASS

Adams, Margaret Louise	Esterly, Pa.
Duke University, 1934-37.	
Andrus, William Santee	Los Angeles, Calif.
A.B., Occidental College, 1936.	
Arnold, Herman Ross, Jr.	Athens, Tenn.
B.A., Furman University, 1937.	
Ballance, L. Charles	Paw Paw, Mich.
Western State Teachers College, 1932-33; A.B.,	University of Michigan, 1937.
Beattie, Frank John	New London, O.
A.B., Oberlin College, 1931.	
Campbell, Anthony Theodore	West Tisbury, Mass.
B.A., University of New Hampshire, 1936.	
Colson, James Thomas	Brunswick, Ga.
Duke University, 1934-37.	
Daniels, George Neil	Elkins, W. Va.
B.S., Davis and Elkins College, 1932.	
Foster, Elliott Orman, Jr.	Millbury, Mass.
Lehigh University, 1933-35; A.B. Bates College, 1937.	
Garber, Murray Roger	Bradford, Pa.
Duke University, 1934-37.	
Gottlieb, Irvin Malvern	Washington, D. C.
B.S., Georgetown University, 1931; American University, 1935-36.	
Gracey, Hugh Catron	Franklin, Tenn.
B.S., Davidson College, 1937.	
Harris, Roger Kennedy	Newport, Ark.
A.B., Duke University, 1937.	
Hassel, Merrill Lynnwood	Bart, Pa.
Millersville State Teachers College, 1934-35; Duke University, 1935-37.	
Hathaway, James Winslow	Stone Lake, Wis.
A.B., Dartmouth College, 1937.	
Hayes, Johnson Jay, Jr.	Greensboro, N. C.
B.A., Wake Forest College, 1937.	
Hayward, Doris Virginia	Delanco, N. J.
Duke University, 1934-37.	
Hovey, George Dunmore	Lenoir, N. C.
B.S., Lafayette College, 1937.	
Hubbell, Robert Bolles	Washington, D. C.
Emory University, 1934-35; Duke University, 1935-37.	
Josephs, Alex Rustin	Charlotte, N. C.
Centre College, 1934-35; Duke University, 1935-37.	
Keene, Spotswood Hughes	Ashland, Va.
Randolph-Macon College, 1933-35; Emory University, 1935-36; A.B., Randolph-Macon College, 1937.	
Klein, Joseph	Chicago, Ill.
Northwestern University, first semester, 1933-34; Wright Junior College, 1934-35;	
Northwestern University, 1935-37.	
Koop, Charles Thomas	Islip, N. Y.
Duke University, 1934-37.	
Laufer, Joseph	Stuttgart, Germany
Karls Gymnasium, 1925-27; University of Berlin, 1927-28; University of Heidelberg, 1928-29; University of Tübingen, 1929-31.	

- Linscott, Charles Norris  
Northwestern University, 1933-37.
- Little, James Crawford  
Duke University, 1934-37.
- McCoy, John Oliver  
Duke University, 1934-37.
- Malmquist, Tord Vincent  
A.B., Marshall College, 1937.
- Missal, Harold Milton  
University of Rochester, 1930-31; Ph.B., Dickinson College, 1935.
- Moore, John Shelby  
A.B., Duke University, 1937.
- Murray, George Charles  
A.B., Holy Cross College, 1933; Harvard University School of Law, first semester, 1934-35.
- Oehmig, Von Daniel  
A.B., Dartmouth College, 1936.
- Onsgard, Henry Adolph  
B.A., University of Wichita, 1937.
- Pope, Harrell  
Campbell College, 1934-35; Duke University, 1935-37.
- Poyner, James Marion  
B.S., North Carolina State College of Agriculture and Engineering, 1935; M.S., North Carolina State College of Agriculture and Engineering, 1937.
- Raub, Benjamin Dimmick, Jr.  
A.B., Lafayette College, 1937.
- Rouzer, Elmer Ellsworth  
Duke University, 1934-37.
- Sanderson, Thomas Jess  
Carleton College, 1932-34; B.S., University of Wisconsin, 1937; University of Wisconsin School of Law, summer, 1937.
- Satterfield, Frank Griffin, Jr.  
A.B., Duke University, 1937.
- Shehan, William Mason, Jr.  
A.B., Duke University, 1937.
- Shepard, James Schumann  
A.B., Wabash College, 1937.
- Slicer, Charles Wharton  
A.B., Marshall College, 1936.
- Smith, Gibson Locke  
A.B., Davidson College, 1937.
- Stone, Russell DeLeon  
Duke University, 1934-37.
- Tunnell, Robert White  
Princeton University, 1932-33, first semester, 1933-34; A.B., Muskingum College, 1937.
- Turner, Charles Fletcher  
Duke University, 1934-37.
- Vandenburgh, Edward Clinton, III  
B.S., Iowa State College of Agriculture and Mechanic Arts, 1937.
- Wanless, Julian Thor  
A.B., DePauw University, 1937; University of Colorado, summers, 1933, 1934, 1936.
- Weinstein, Maurice Aaron  
University of Maryland, 1934-35; Duke University, 1935-37.
- Welfare, Bradley Lamar, Jr.  
A.B., Duke University, 1937.
- Wilson, Thomas, III  
A.B., University of North Carolina, 1937.
- Yarborough, Donald Victor  
Texas Technological College, 1929-30; B.B.A., University of Texas, 1933; University of Southern California School of Law, summer, 1937.
- Rockford, Ill.
- Raleigh, N. C.
- Glen Jean, W. Va.
- Huntington, W. Va.
- Bristol, Conn.
- Clarksburg, W. Va.
- Brighton, Mass.
- Chattanooga, Tenn.
- Wichita, Kan.
- Dunn, N. C.
- Raleigh, N. C.
- Easton, Pa.
- Hagerstown, Md.
- Portage, Wis.
- Durham, N. C.
- Easton, Md.
- Columbia City, Ind.
- Huntington, W. Va.
- Charlotte, N. C.
- Wilmington, N. C.
- Georgetown, Del.
- Birmingham, Ala.
- Sioux City, Ia.
- Springfield, Ill.
- Salem, N. J.
- Winston-Salem, N. C.
- Charleston, S. C.
- Chandler, Tex.

## SECOND-YEAR CLASS

- Arnold, Hubert Kennard  
A.B., University of Maryland, 1935; Georgetown University School of Law, 1935-37.
- Betts, Willard Furman, Jr.  
A.B., University of North Carolina, 1936.
- Blackburn, James William, Jr.  
Bowling Green, Ky.  
Western Kentucky State Teachers College, 1931-1934; George Washington University School of Law, 1934-35; first semester, 1935-36; second semester, 1936-37.
- Bogue, Robert William  
Parker, S. D.  
Leland Stanford University, 1932-33; University of South Dakota, 1933-35; B.A., University of Wisconsin, 1936.
- Bomar, Fleming Brown  
Spartanburg, S. C.  
A.B., Wofford College, 1936.
- Burwell, George Allen  
Warrenton, N. C.  
A.B., Duke University, 1937.
- Carden, Russell Campbell  
Chattanooga, Tenn.  
A.B., Duke University, 1937.
- Cooley, Edward William  
Wheeling, W. Va.  
A.B., Duke University, 1936.
- Deneen, Russell Sanders  
Bakersville, N. C.  
A.B., Duke University, 1937.
- Desvernine, Eugene  
Buen Retiro, Marianao,  
A.B., Duke University, 1937.  
Havana, Cuba
- Forsythe, John Samuel  
Rocky Mount, Va.  
Geneva College, 1933-36.
- Gibbs, Charles Haskell  
Charleston, S. C.  
A.B., College of Charleston, 1936.
- Green, John Oliver  
Nathalie, Va.  
Mars Hill College, 1932-34; B.A., University of Richmond, 1936.
- Green, Martin Klapp  
Raleigh, N. C.  
A.B., Duke University, 1932.
- Griffith, Erma Ellen  
Lebanon, Va.  
A.B., Duke University, 1937.
- Hoffman, John Edward  
Fort Wayne, Ind.  
A.B., Duke University, 1937.
- Knapp, James Edward  
Irasburg, Vt.  
A.B., Duke University, 1937.
- Lowe, James Russell  
Elon College, N. C.  
A.B., Duke University, 1936.
- Mann, Oliver DeWitt  
Whitakers, N. C.  
A.B., Duke University, 1936.
- Margraf, Gustav Benhart  
Cape Girardeau, Mo.  
A.B., Southeast Missouri State Teachers College, 1936.
- Maxwell, Lylton Ethridge  
Pink Hill, N. C.  
A.B., Duke University, 1936.
- Meyerson, Stanley Phillip  
Spartanburg, S. C.  
Georgia School of Technology, 1933-34; A.B., Duke University, 1937.
- Moose, William Lewis, III  
Little Rock, Ark.  
Hendrix College, 1932-34; University of Virginia, 1934-35; B.A., Hendrix College, 1936.
- Morrah, Patrick Bradley, Jr.  
Greenville, S. C.  
A.B., The Citadel, 1936.
- Oakes, John Campbell  
Johnson City, Tenn.  
B.S., State Teachers College, of Tennessee, 1936.
- Page, Hugh Alexander, Jr.  
Clayton, N. C.  
Duke University, 1932-36.
- Penabaz, Fernando J.  
Jobabo, Oriente, Cuba  
Duke University, 1933-36.
- Powell, Rufus Heflin, III  
Durham, N. C.  
A.B., Duke University, 1936.
- Reid, Edwin Kitchen  
Albany, Ga.  
A.B., Syracuse University, 1936.

Renner, Charles Victor	Parkersburg, W. Va.
A.B., Marietta College, 1936.	
Sanders, Richard Tatum	Sherman, Tex.
Austin College, 1931-32; A.B., Baylor University, 1935.	
Tomlinson, Benson Cahoon	Fornfelt, Mo.
Southeast Missouri State Teachers College, 1933-36.	
Turlington, David James, Jr.	Clinton, N. C.
Duke University, 1933-36.	
Womble, William Fletcher	Winston-Salem, N. C.
A.B., Duke University, 1937.	

## THIRD-YEAR CLASS

Bulleit, Edward Banister	Gettysburg, Pa.
A.B., Gettysburg College, 1935.	
Butterfield, Thomas Edward, Jr.	Bethlehem, Pa.
A.B., Lehigh University, 1935.	
Cady, Frederick Clayson	Syracuse, N. Y.
A.B., Duke University, 1936.	
Cann, Richard McDonald	Greensboro, N. C.
Davidson College, 1932-34; A.B., Duke University, 1936.	
Cleveland, Theron Clair, Jr.	Greenville, S. C.
A.B., Duke University, 1935.	
Hill, Harry Weller	Williamson, W. Va.
University of Alabama, 1932-33; Marshall College, 1933-35.	
Holmes, John Sharp	Yazoo City, Miss.
B.A., Millsaps College, 1936; University of Texas, School of Law, 1936-37.	
Lewis, William Allen	Durham, N. C.
A.B., Duke University, 1936.	
Littell, Duane Oliver	Beaver Falls, Pa.
B.A., Geneva College, 1934.	
Lundgren, Carl Raymond	New Haven, Conn.
A.B., Duke University, 1933.	
Marks, Morris Steinberg	Augusta, Ga.
A.B., Duke University, 1935.	
Matthews, John Frederick	Louisburg, N. C.
Wake Forest College, 1930-33.	
Newson, James Long	Durham, N. C.
Institut Sillig, Switzerland, 1930-31; A.B., Duke University, College of Law, 1935-37.	
Sapp, James Everett, Jr.	Albany, Ga.
A.B., Duke University, 1935.	
Sears, Howard Jones	Chattanooga, Tenn.
A.B., University of the South, 1935.	
Spencer, Harold Winston	Willow Grove, Pa.
A.B., Lafayette College, 1935.	
Stuart, Carmon Jackson	Jefferson, N. C.
B.S., Appalachian State Teachers College, 1935.	
Warren, Charles Ransome, Jr.	Chatham, Va.
A.B., Duke University, 1936.	
Wyman, Paul B.	Kalamazoo, Mich.
Kalamazoo College, 1932-35.	
Young, Charles Holt	Raleigh, N. C.
A.B., Duke University, 1935.	

## GRADUATE STUDENT

Barnes, Henry Searcy	Franklin, Ga.
B.S., North Georgia Agricultural College, 1920; L.L.B., Atlanta Law School, 1923; A.B., Mercer University, 1928; I.L.B., Mercer University, 1928; M.A., Mercer University, 1933.	



## UNCLASSIFIED STUDENTS

Flora, William Sherlock	Canton, O.
B.A., Wooster College, 1935; Duke University, 1936-37.	
Holleman, Robert Dunn	Durham, N. C.
B.A., Wake Forest College, 1934; I.L.B., Wake Forest School of Law, 1936.	
Munster, Ralf F. W.	Savannah, Ga.
A.B., Duke University, 1937.	

## INSTITUTIONS REPRESENTED

American University	North Georgia Agricultural College
Appalachian State Teachers College	Northwestern University
Bates College	Oberlin College
Baylor University	Occidental College
Carlton College	Princeton University
Centre College	Randolph-Macon College
The Citadel	Stanford University
College of Charleston	State Teachers College of Tennessee
Dartmouth College	Southeast Missouri State Teachers College
Davidson College	Texas Technological College
Davis-Elkins College	University of Alabama
DePauw University	University of Berlin
Dickinson College	University of Colorado
Duke University	University of Heidelberg
Emory University	University of Maryland
Furman University	University of New Hampshire
Geneva College	University of North Carolina
George Washington University	University of Richmond
Georgetown University	University of Rochester
Georgia School of Technology	University of the South
Gettysburg College	University of South Dakota
Harvard University	University of Southern California
Hendrix College	University of Syracuse
Holy Cross College	University of Texas
Institut Sillig—Switzerland	University of Tübingen
Iowa State College	University of Virginia
Kalamazoo College	University of Wichita
Karls Gymnasium	University of Wisconsin
Lafayette College	Wabash College
Lehigh University	Wake Forest College
Marietta College	Western Kentucky State Teachers College
Marshall College	Western State Teachers College
Mars Hill College	Wofford College
Mercer University	Wooster College
Millsaps College	Wright Junior College
Muskingum College	
North Carolina State College	

## STATES AND FOREIGN COUNTRIES REPRESENTED

Alabama, Arkansas, California, Connecticut, Cuba, Delaware, District of Columbia, Georgia, Germany, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Massachusetts, Michigan, Mississippi, Missouri, New Jersey, New York, North Carolina, Ohio, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, West Virginia, Wisconsin. Total, 32.

## GENERAL SUMMARY

First-Year Class .....	52
Second-Year Class .....	34
Third-Year Class .....	20
Unclassified .....	3
Graduate Students .....	1
Total Enrollment .....	110
Total Number of Institutions Represented .....	72
Total Number of States and Foreign Countries Represented .....	32

## DEGREES AWARDED IN JUNE, 1937

## BACHELOR OF LAWS

Albrink, Frederick Stockman	
A.B., Oberlin College, 1934.	
Baird, William Jesse, II	
A.B., Berea College, 1934.	
Brooks, Arthur Alford, Jr.	
B.A., Coe College, 1934.	
Brownfield, Lyman Hugh	
B.A., Mount Union College, 1934.	
Fay, John Richard	
B.S., Albright College, 1934.	
Haley, James Meredith	
B.A., University of Chattanooga, 1934.	
Henderson, David Henry	
A.B., Duke University, 1935.	
Holland, John Mack, Jr.	
B.S., Davidson College, 1934.	
Hunter, Ethel Farley	
A.B., West Virginia University, 1935; West Virginia University, School of Law, 1934-35.	
Kiefer, Richard Wagner	
B.A., Western Maryland College, 1934.	
Lanier, Helen Lucile	
A.B., Whitman College, 1934.	
Leathers, Harland Francis	
A.B., University of Maine, 1935.	
Lybrook, William Reynolds	
A.B., Duke University, 1934.	
McConnell, John Daniel	
B.S., Davidson College, 1932.	
McCown, Hale	
A.B., Hastings College, 1935.	
Moyle, Samuel B.	
Trinity College, 1912-14; Washington and Lee University, 1915-16; University of South Carolina School of Law, 1933-36.	
Nissen, Carl Hans	
B.A., Wesleyan University, 1934.	
Nixon, Richard Milhous	
A.B., Whittier College, 1934.	
Perdue, William R., Jr.	
A.B., Emory University, 1934.	
Phillips, Caroline Mary	
A.B., Duke University, 1935.	
Smith, Emma Lee	
A.B., Duke University, 1928.	
Stoel, Thomas Burrows, Jr.	
A.B., Hobart College, 1934.	

Troxler, Therman Joseph

A.B., Duke University, 1933.

Washburn, William Edward

A.B., Tusculum College, 1931.

Whitener, Basil Lee

Rutherford College; University of South Carolina, 1933-34; University of South Carolina School of Law, 1934-35.

Williams, Glenn Davis

A.B., Duke University, 1934.

#### MASTER OF LAWS

Moyle, Samuel B.

Trinity College, 1912-14; Washington and Lee University, 1915-16; University of South Carolina School of Law, 1933-36; LL.B., Duke University School of Law, 1937.









# BULLETIN OF DUKE UNIVERSITY

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## *The Summer School*



1938

FIRST TERM: JUNE 13-JULY 23

SECOND TERM: JULY 25-SEPTEMBER 3

ANNOUNCEMENT

JUNALUSKA SUMMER SCHOOL, INC.  
(AFFILIATED WITH DUKE UNIVERSITY)

AND

JUNALUSKA SCHOOL OF RELIGION  
LAKE JUNALUSKA, N. C.

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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FOR GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

FOR BULLETIN OF UNDERGRADUATE INSTRUCTION, apply to *The Secretary*, Duke University, Durham, N. C.

FOR BULLETIN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES, apply to *The Dean of the Graduate School*, Duke University, Durham, N. C.

FOR BULLETIN OF THE SCHOOL OF FORESTRY, apply to *The Dean of the School of Forestry*, Duke University, Durham, N. C.

FOR BULLETIN OF THE SCHOOL OF LAW, apply to *The Dean of the School of Law*, Duke University, Durham, N. C.

FOR BULLETIN OF THE SCHOOL OF MEDICINE, apply to *The Dean of the School of Medicine*, Duke University, Durham, N. C.

FOR BULLETIN OF THE SCHOOL OF NURSING, apply to *The Dean of the School of Nursing*, Duke University, Durham, N. C.

FOR BULLETIN OF THE SCHOOL OF RELIGION, apply to *The Registrar of the School of Religion*, Duke University, Durham, N. C.

FOR BULLETIN OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

FOR BULLETIN OF THE SUMMER SCHOOL, apply to *The Director of the Summer School*, Duke University, Durham, N. C.

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BULLETIN  
OF  
DUKE UNIVERSITY

SUMMER SCHOOL  
ANNOUNCEMENT



1938

FIRST TERM: JUNE 13-JULY 23  
SECOND TERM: JULY 25-SEPTEMBER 3

ANNOUNCEMENT

JUNALUSKA SUMMER SCHOOL, INC.  
(AFFILIATED WITH DUKE UNIVERSITY)

AND

JUNALUSKA SCHOOL OF RELIGION  
LAKE JUNALUSKA, N. C.

DURHAM, NORTH CAROLINA  
1938



## SUMMER SCHOOL ANNOUNCEMENT

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ROBERT LEE FLOWERS, A.M., LL.D.,  
VICE-PRESIDENT OF DUKE UNIVERSITY AND MEMBER OF THE FACULTY  
COMMITTEE ON THE SUMMER SCHOOL

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.,  
VICE-PRESIDENT OF DUKE UNIVERSITY AND MEMBER OF THE FACULTY  
COMMITTEE ON THE SUMMER SCHOOL

HOLLAND HOLTON, A.B., J.D.,  
DIRECTOR OF THE SUMMER SCHOOL AND CHAIRMAN OF THE FACULTY  
COMMITTEE ON THE SUMMER SCHOOL

\*WILLIAM KENNETH BOYD, A.B., A.M., Ph.D.,  
MEMBER OF THE FACULTY COMMITTEE OF THE SUMMER SCHOOL

ARTHUR MARCUS PROCTOR, A.B., A.M., Ph.D.,  
ASSOCIATE DIRECTOR OF THE SUMMER SCHOOL

WILLIAM HENRY GLASSON, Ph.B., Ph.D.,  
DEAN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES

ALICE MARY BALDWIN, A.B., A.M., Ph.D.,  
DEAN OF THE WOMAN'S COLLEGE

WALTER KIRKLAND GREENE, A.B., A.M., Ph.D.,  
DEAN OF UNDERGRADUATE INSTRUCTION

MARY GRACE WILSON, A.B.,  
SOCIAL DIRECTOR AND ACTING DEAN OF WOMEN

ANNE GARRARD, A.B., A.M.  
(Dean of Students, Greensboro College),  
SOCIAL DIRECTOR AND ACTING DEAN OF WOMEN (Second Term)

FLORA MARIE MEREDITH, A.B.  
(Dean of Women, Hendrix College, Arkansas),  
ASSISTANT DEAN OF WOMEN (in charge of East Campus)

### FACULTY

BIGELOW, LUCIUS AURELIUS; S.B., Massachusetts Institute of Technology; Ph.D., Yale; CHEMISTRY (Duke University).

BIRD, HAROLD CRUSIUS; Ph.B., C.E., Yale; CIVIL ENGINEERING (Duke University).

BLOMQUIST, HUGO LEANDER; B.S., University of Chicago; Pasteur Institute, 1919; Ph.D., University of Chicago; BOTANY (Duke University).

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\* Deceased January 19, 1938.

- BROWNELL, WILLIAM ARTHUR; A.B., Allegheny College; A.M., Ph.D., University of Chicago; EDUCATIONAL PSYCHOLOGY (Duke University).
- CANNON, JAMES, III; A.B., Duke; A.M., Princeton; Th.B., Th.M., Princeton Theological Seminary; Edinburgh University, 1919; Garrett, 1924; RELIGION (Duke University).
- CARR, JOHN WINDER, JR.; A.B., Duke; A.M., Ph.D., Columbia; EDUCATION (Duke University).
- CARROLL, EBER MALCOLM; A.B., A.M., Ph.D., University of Michigan; HISTORY (Duke University).
- CHILDS, BENJAMIN GUY; A.B., A.M., University of Virginia; University of Virginia, 1921-22; EDUCATION (Duke University).
- COWPER, FREDERICK AUGUSTUS GRANT; A.B., A.M., Trinity College (Conn.); University of Strassburg, 1906-07; University of Geneva, 1907-08; Ph.D., University of Chicago; FRENCH (Duke University).
- CUNNINGHAM, BERT; B.S., M.S., Illinois Wesleyan; A.M., Duke; Ph.D., University of Wisconsin; ZOOLOGY (Duke University).
- ELLIOTT, WILLIAM WHITFIELD; B.A., Hampden-Sydney College; M.A., University of Kentucky; Ph.D., Cornell; MATHEMATICS (Duke University).
- ELLWOOD, CHARLES ABRAM; Ph.B., Cornell; Ph.D., University of Chicago; LL.D., Bethany College; SOCIOLOGY (Duke University).
- GARDINER, ANN HENSHAW; R.N., Grad. Shepherd Normal School (W. Virginia); B.S., Columbia; University of Washington Medical School of Hygiene, 1924-25; M.S., Kansas State College; HYGIENE (Duke University).
- GERGEN, JOHN L.; A.B., A.M., University of Minnesota; Ph.D., Rice Institute; MATHEMATICS (Duke University).
- GILBERT, ALLAN H.; B.A., Cornell; A.M., Yale; Ph.D., Cornell; ENGLISH (Duke University).
- GRAY, IRVING EMERY; B.S., Massachusetts State College; M.S., Ph.D., University of Wisconsin; ZOOLOGY (Duke University).
- HALL, FRANK GREGORY; A.B., Milton College; A.M., Ph.D., University of Wisconsin; ZOOLOGY (Duke University).
- HALL, WILLIAM HOLLAND; A.B., A.M., Duke; B.C.E., University of Michigan; M.S.C.E., University of Wisconsin; ENGINEERING (Duke University).
- HUBBELL, JAY BROADUS; A.B., University of Richmond; A.M., Harvard; Ph.D., Columbia; ENGLISH (Duke University).
- IRVING, WILLIAM HENRY; B.A., Mt. Allison University; B.A., M.A., Oxford; Ph.D., Harvard; ENGLISH (Duke University).
- JENSEN, HOWARD EIKENBERRY; A.B., A.M., University of Kansas; B.D., Ph.D., University of Chicago; SOCIOLOGY (Duke University).
- JORDAN, BRADY RIMBEY; Litt.B., Princeton; Ph.D., University of Wisconsin; FRENCH (Duke University).
- KRUMMEL, CHARLES ALBERT; Ph.B., Central Wesleyan College; Ph.M., Syracuse; Ph.D., University of Wisconsin; University of Marburg, 1910; GERMAN (Duke University).



- LAPRADE, WILLIAM THOMAS; A.B., Washington Christian College; Ph.D., Johns Hopkins; HISTORY (Duke University).
- LUNDEBERG, OLAV K.; A.B., St. Olaf College; A.M., Ph.D., University of Minnesota; Université de Montpellier, 1918; Centro de Estudios Historicos, Madrid, 1929; SPANISH (Duke University).
- MAUGHAN, WILLIAM; B.S., University of Minnesota; M.F., Yale; FORESTRY (Duke University).
- MITCHELL, FRANK KIRBY; A.B., Millsaps; A.M., University of Michigan; Oriel College, Oxford, 1921-24; ENGLISH (Duke University).
- MYERS, HIRAM EARL; A.B., Duke; S.T.B., S.T.M., Boston University; RELIGION (Duke University).
- NIELSEN, WALTER McKINLEY; B.S., Ph.D., University of Minnesota; PHYSICS (Duke University).
- PEARSE, ARTHUR SPERRY; B.S., A.M., University of Nebraska; Ph.D., Harvard; ZOOLOGY (Duke University).
- PROCTOR, ARTHUR MARCUS; A.B., Duke; A.M., Ph.D., Columbia; EDUCATION (Duke University).
- RANKIN, ROBERT STANLEY; A.B., Tusculum College; A.M., Ph.D., Princeton; POLITICAL SCIENCE (Duke University).
- RANKIN, WILLIAM WALTER; B.E., North Carolina State College of Agriculture and Engineering; A.M., University of North Carolina; Harvard, 1914-15; Columbia, 1919-21; MATHEMATICS (Duke University).
- SCHUMACHER, FRANCIS X.; B.S., University of Michigan; FORESTRY (Duke University).
- SHRYOCK, RICHARD HARRISON; B.S.Ed., Ph.D., University of Pennsylvania; HISTORY (Duke University).
- SMITH, HILRIE SHELTON; A.B., Elon College; Ph.D., Yale; D.D., De fiance College; RELIGIOUS EDUCATION (Duke University).
- SPENCE, HERSEY EVERETT; A.B., A.M., B.D., Duke; RELIGION (Duke University).
- SPENGLER, JOSEPH JOHN; A.B., A.M., Ph.D., Ohio State University; ECONOMICS (Duke University).
- SYDNOR, CHARLES SACKETT; A.B., Hampden-Sydney College; Ph.D., Johns Hopkins; HISTORY (Duke University).
- THOMAS, JOSEPH MILLER; A.B., Ph.D., University of Pennsylvania; MATHEMATICS (Duke University).
- VOSBURGH, WARREN CHASE; B.S., M.S., Union College; Ph.D., Columbia; CHEMISTRY (Duke University).
- WALTON, LORING BAKER; A.B., Princeton; Harvard, 1917-18; Lic. ès L., Sorbonne; FRENCH (Duke University).
- WEBB, ALBERT MICAIAH; A.B., A.M., Yale; Sorbonne (Paris) and Madrid, 1907-08; Sorbonne, 1923; FRENCH (Duke University).
- WHITE, NEWMAN IVEY; A.B., A.M., Duke; A.M., Ph.D., Harvard; ENGLISH (Duke University).

- WILSON, ROBERT NORTH; A.B., Haverford College; M.S., University of Florida; Harvard, 1905-06; University of Illinois, 1923-24; Yale, 1931-32; CHEMISTRY (Duke University).
- WILSON, ROBERT RENBERT; A.B., Austin College; A.M., Princeton; Ph.D., Harvard; POLITICAL SCIENCE (Duke University).
- ZENER, KARL EDWARD; Ph.B., University of Chicago; A.M., Ph.D., Harvard; National Research Fellow in Psychology, University of Berlin, 1926-27; PSYCHOLOGY (Duke University).
- ADAMS, DONALD KEITH; A.B., Pennsylvania State College; A.M., Harvard; Ph.D., Yale; PSYCHOLOGY (Duke University).
- ALLEN, ROBERT JOSEPH; A.B., University of Illinois; A.M., Ph.D., Harvard; ENGLISH (Williams College).
- BERRY, EDWARD WILLARD; A.B., Ph.D., Johns Hopkins; GEOLOGY (Duke University).
- BLACK, MARTIN LEE, JR.; A.B., Duke; M.B.A., Northwestern; C.P.A., Illinois and North Carolina; ACCOUNTING (Duke University).
- BOYER, PHILIP ALBERT; A.B., Temple; A.M., Ph.D., University of Pennsylvania; PUBLIC SCHOOL ADMINISTRATION (Director of Educational Research, Philadelphia Public Schools).
- BRIDGERS, FURMAN ANDERSON; A.B., Duke; A.M., University of Chicago; University of Chicago, 1928-29, 1933; FRENCH (Duke University).
- CARLITZ, LEONARD; A.B., Ph.D., University of Pennsylvania; MATHEMATICS (Duke University).
- CARPENTER, DAVID WILLIAMS; A.B., A.M., Ph.D.; Duke; PHYSICS (Duke University).
- COLE, ROBERT TAYLOR; B.A., University of Texas; A.M., Ph.D., Harvard; POLITICAL SCIENCE (Duke University).
- CONSTANT, FRANK WOODBRIDGE; B.S., Princeton; Ph.D., Yale; PHYSICS (Duke University).
- COULTER, ELLIS MERTON; A.B., University of North Carolina; A.M., Ph.D., University of Wisconsin; HISTORY (University of Georgia).
- DAVIS, GIFFORD; A.B., Bowdoin College; A.M., Ph.D., Harvard; FRENCH (Duke University).
- DE VYVER, FRANK TRAVER; A.B., A.M., Oberlin College; A.M., Ph.D., Princeton; ECONOMICS (Duke University).
- EASLEY HOWARD; A.B., Union University, Tenn.; A.M., Ph.D., George Peabody College; EDUCATIONAL PSYCHOLOGY (Duke University).
- GAMBLE, GUY C.; B.S., Ph.D., Teachers College, Columbia University; EDUCATION (Senior Supervisor, Social Studies, W.P.A.).
- GODARD, JAMES McFATE; A.B., Park College; A.M., Duke; Duke, 1930-31, 1932-36; EDUCATION (Queens-Chicora College).
- GRIGGS, EARL LESLIE; B.A., University of Colorado; A.M., Columbia; Ph.D., University of London; ENGLISH (University of Michigan).
- GWYNN, JOHN MINOR; A.B., A.M., University of North Carolina; Ph.D., Yale; EDUCATION (University of North Carolina).

- GWYNN, PRICE HENDERSON, JR.; A.B., A.M., University of North Carolina; B.D., Yale Divinity School; Ph.D., Yale; EDUCATION (Davidson College).
- HALE, ORON JAMES; University of Washington (Seattle); A.M., Ph.D., University of Pennsylvania; HISTORY (University of Virginia).
- HAWKES, EVELYN JONES; A.B., A.M., Duke; Ph.D., University of Pennsylvania; SECONDARY EDUCATION (New Jersey College for Women).
- HIGHSMITH, JOHN HENRY; A.B., A.M., Duke; Columbia, 1904-06; LL.D., Catawba College; D.Ed., Wake Forest College; PUBLIC SCHOOL ADMINISTRATION (Director, Division of Instructional Service, North Carolina Department of Public Instruction).
- HILL, HENRY HARRINGTON; A.B., A.M., University of Virginia; Ph.D., Columbia; PUBLIC SCHOOL ADMINISTRATION (Superintendent of Lexington, Ky., Schools).
- HILLMAN, JAMES ELGAN; B.Ped., Berea College; B.S., A.M., Ph.D., George Peabody College; EDUCATION (Director, Division of Professional Service, North Carolina Department of Public Instruction).
- HOLLIS, ERNEST VICTOR; B.S., M.S., Mississippi State College; A.M., Ph.D., Columbia; EDUCATION (College of the City of New York).
- JENKINS, RAYMOND; A.B., Cornell; Ph.D., Yale; ENGLISH (Catawba College).
- JOHN, LENORE SUSAN; A.B., York College; A.M., University of Chicago; Chicago, —; ELEMENTARY EDUCATION (Specialist in Arithmetic, University of Chicago Laboratory School).
- JOHNSON, ROY IVAN; A.B., B.S. in Ed., University of Missouri; A.M., Ph.D., University of Chicago; EDUCATION (Stephens College).
- JORDAN, ARCHIBALD CURRIE; A.B., Duke; A.M., Columbia; Columbia, 1924-25; ENGLISH (Duke University).
- LANDON, CHARLES E.; A.B., A.M., University of Kansas; Ph.D., University of Illinois; ECONOMICS (Duke University).
- LANNING, JOHN TATE; A.B., Duke; A.M., University of California; University of London, 1926-27; Ph.D., University of California; HISTORY (Duke University).
- LEFLER, HUGH TALMAGE; A.B., A.M., Duke; Ph.D., University of Pennsylvania; HISTORY (University of North Carolina).
- MCCLOY, SHELBY THOMAS; A.B., A.M., Davidson; B.Litt., B.A., Oxford; Ph.D., Columbia; HISTORY (Duke University).
- MANCHESTER, ALAN KREBS; A.B., Vanderbilt; A.M., Columbia; Ph.D., Duke; HISTORY (Duke University).
- MAXWELL, BALDWIN; A.B., A.M., University of North Carolina; Ph.D., University of Chicago; ENGLISH (State University of Iowa).
- MAXWELL, WILLIAM CARY; A.B., A.M., Duke; Ph.D., University of Heidelberg; GERMAN (Duke University).
- MIMS, EDWIN; A.B., A.M., Vanderbilt; Ph.D., Cornell; ENGLISH (Vanderbilt University).

- MOUZON, JAMES CARLISLE; B.A., Southern Methodist University; Ph.D., California Institute of Technology; PHYSICS (Duke University).
- ODELL, CHARLES WATTERS; A.B., A.M., DePauw; Ph.D., University of Illinois; EDUCATIONAL PSYCHOLOGY (University of Illinois).
- OVERN, ALFRED VICTOR; A.B., M.S., Ph.D., University of Minnesota; EDUCATION (University of North Dakota).
- PARKER, WILLIAM RILEY; A.B., Roanoke College; M.A., Princeton; B.Litt., Oxford; ENGLISH (Ohio State University).
- PARKS, EDD WINFIELD; A.B., Harvard; A.M., Ph.D., Vanderbilt; ENGLISH (University of Georgia).
- PATTON, LEWIS; A.B., Furman; Yale, 1923-26 ENGLISH (Duke University).
- PORTERFIELD, AUSTIN L.; A.B., Oklahoma City University; A.M., Drake University; B.D., Phillips University; Ph.D., Duke; SOCIOLOGY (Texas Christian University).
- QUYNN, DOROTHY MACKAY; A.B., A.M., University of California; Docteur de l'Université de Paris; HISTORY (Duke University).
- QUYNN, WILLIAM ROGERS; B.A., M.A., University of Virginia; Ph.D., Johns Hopkins; SPANISH (Duke University).
- RAMSDELL, CHARLES WILLIAMS; B.A., M.A., University of Texas; Ph.D., Columbia; HISTORY (University of Texas).
- SAYLOR, JOHN HENRY; A.B., Southern Methodist University; A.M., Ph.D., Duke; CHEMISTRY (Duke University).
- SCATES, DOUGLAS EDGAR; A.B., Whitworth; Ph.D., University of Chicago; EDUCATION (Director of Research and Statistics, Cincinnati Public Schools).
- SHIELDS, JOHN HERMAN; A.B., A.M., University of Texas; Columbia, 1924-26; ACCOUNTING (Duke University).
- SLAY, RONALD JAMES; B.S., University of Mississippi; A.M., Ph.D., Columbia; TEACHING OF SCIENCE (East Carolina Teachers College).
- SMITH, CULVER HAYGOOD; A.B., Duke; A.M., Yale; Ph.D., Duke; HISTORY (University of Chattanooga).
- SOLVE, MELVIN T.; B.A., University of Oregon; Ph.D., University of Michigan; National University of Norway, Oslo, 1920-21; ENGLISH (University of Arizona).
- SUGDEN, HERBERT WILFRID; A.B., Harvard; A.M., Ph.D., Duke; ENGLISH (Duke University).
- THOMPSON, EDGAR TRISTRAM; A.B., University of South Carolina; A.M., University of Missouri; Ph.D., University of Chicago; SOCIOLOGY (Duke University).
- WALLIN, JOHN EDWARD WALLACE; A.B., Augustana; A.M., Ph.D., Yale; EDUCATIONAL PSYCHOLOGY (Director of Special Education and Mental Hygiene, Delaware State Department of Public Instruction).
- WARD, CHARLES EUGENE; A.B., Baker; A.M., Ph.D., Duke; ENGLISH (Duke University).

- WHITE, MARIE ANNE; A.B., A.M., Washington University; ENGLISH (Duke University).
- WILSON, FREDERICK ELIPHAZ; A.B., Oberlin College; A.M., Columbia; University of Leipzig, 1916-17; Harvard, 1922-23; GERMAN (Duke University).
- AGNEW, DONALD CHARLES; A.B., Park College; A.M., Ph.D., Duke; EDUCATION (Coker College).
- ANDERSON, LEWIS EDWARD; B.S., Mississippi State College; A.M., Duke; Ph.D., University of Pennsylvania; BOTANY (Duke University).
- AVILÉS, LUIS ESTEBAN; A.B., Park College; A.M., University of Kansas; Ph.D., University of Illinois; SPANISH (Duke University).
- AYCOCK, THOMAS MALCOLM; B.S., Oklahoma State College; M.S., University of Iowa; HEALTH EDUCATION (Duke University).
- BARDEN, JOHN GLENN; A.B., University of North Carolina; A.M., Columbia; Columbia, 1930-31; EDUCATION (Duke University).
- BASON, CECILIA H.; A.B., Flora Macdonald College; A.M., Ph.D., Columbia; EDUCATION (Georgia State College for Women).
- BERRY, THOMAS SENIOR; S.B., A.M., Harvard; Harvard, 1932-35; ECONOMICS (Duke University).
- BROWN, FRANCES; A.B., Agnes Scott College; Ph.D., Johns Hopkins; CHEMISTRY (Duke University).
- CURTIS, KADER RANDOLPH; B.A., Wake Forest College; M.Ed., Duke; EDUCATION (Superintendent of Wilson County and City Schools).
- DOW, NEAL; A.B., Kenyon College; A.M., University of Pennsylvania; University of Pennsylvania, 1930-33; FRENCH (Duke University).
- ESKRIDGE, THOMAS JOSEPH, JR.; Emory and Henry College; A.M., George Peabody College; Ph.D., Duke; EDUCATION (Lander College).
- FITZGERALD, WILLIAM STONE; A.B., Vanderbilt; A.M., Harvard; Duke, 1934-37; ENGLISH (Duke University).
- FLANDERS, RALPH BETTS; A.B., A.M., Emory; Ph.D., Duke; HISTORY (New York University).
- GIBSON, WILLIAM MARION; A.B., University of Richmond; A.M., Ph.D., Duke; POLITICAL SCIENCE (Duke University).
- HARRIS, THERMAN WINFRED; A.B., Clarendon College; M.S.Ed., Oklahoma University; Duke, 1936-37; EDUCATION (Eastern New Mexico Junior College).
- HOBBS, MARCUS EDWIN; A.B., A.M., Ph.D., Duke; ASSISTANT IN CHEMISTRY (Duke University).
- JARRELL, HAMPTON McNEELY; A.B., University of Georgia; A.M., Harvard; Ph.D., Duke; ENGLISH (Winthrop College).
- KEECH, JAMES MAYNARD; A.B., A.M., Ph.D., Duke; ECONOMICS (Duke University).
- LINEBARGER, PAUL M. A.; A.B., George Washington University; M.A., Ph.D., Johns Hopkins; POLITICAL SCIENCE (Duke University).



- McCULLOCH, THOMAS LOGAN; A.B., Whittier; A.M., Ph.D., Duke; PSYCHOLOGY (Duke University).
- McEWEN, NOBLE RALPH; A.B., Birmingham-Southern College; A.M., Duke; Duke, 1930-32; EDUCATION (Salem College).
- MABRY, WILLIAM ALEXANDER; A.B., A.M., Duke; A.M., Harvard; Ph.D., Duke; HISTORY (Duke University).
- MARKS, SALLIE BELLE; A.B., A.M., Teachers College, Columbia; ELEMENTARY EDUCATION (Meredith College).
- MICHAELS, MATILDA OSBORNE; A.B., Duke; A.M., Columbia; ELEMENTARY EDUCATION (Supervisor Durham County Schools).
- PORTER, ESTELLE RAWL; A.B., Winthrop College; Smith College, 1922-23; University of Chicago, 1926-27; ELEMENTARY EDUCATION (Queens-Chicora College).
- RAYMOND, MARY LOIS; A.B., Mount Holyoke College; A.M., Radcliffe College; University of Wisconsin, 1919-20; University of Madrid and University of Paris, 1921-22; School of International Studies, Geneva, 1928; FRENCH (Duke University).
- SANDERS, CHARLES RICHARD; B.Th., A.M., Emory; Ph.D., University of Chicago; ENGLISH (Duke University).
- SIMPSON, WILLIAM HAYS; A.B., Tusculum College; A.M., Ph.D., Duke; POLITICAL SCIENCE (Duke University).
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- WATSON, KARL BRANTLEY, JR.; B.S., A.B., University of Chattanooga; A.M., Duke; Duke, 1936-38; EDUCATION (Duke University).
- WEST, ALFRED THURBER; B.S., Alabama Polytechnic Institute; A.M., University of Alabama; Teacher's Certificate from American Academy of Dramatic Art; ENGLISH (Duke University).
- WOODY, ROBERT HILLIARD; Ph.B., Emory; A.M., Ph.D., Duke; HISTORY (Duke University).
- ALSTON, AUGUSTA MICHAELS; A.B., Duke; DRAWING (Durham City Schools).
- BOOKHOUT, ELIZABETH CIRCLE; A.B., Randolph-Macon Woman's College; M.S., Wellesley; PHYSICAL EDUCATION (Duke University).
- BRIGHT, ROBERT DIETRICH; A.B., Dartmouth College; Duke, 1936-38; ASSISTANT IN CHEMISTRY (Duke University).
- COOPER, GERALD RICE; A.B., A.M., Duke; Duke, 1937-38; ASSISTANT IN CHEMISTRY (Duke University).
- DEANS, EDWINA; A.B., North Carolina College for Women; M.Ed., Duke; ELEMENTARY EDUCATION (Teacher in Evanston, Illinois, Schools).
- HOPKINS, JOHN ISAAC; B.S., A.M., Duke; Duke, 1936-38; ASSISTANT IN PHYSICS (Duke University).
- MASON, MARY LOCHER; Diploma, Maryland Institute; Diploma in Fine Arts, Teachers College, Columbia; DRAWING (Durham City Schools).
- PECK, ROBERT LAWRENCE; B.S., Duke; Duke, 1936-38; ASSISTANT IN CHEMISTRY (Duke University).



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TWADDELL, VERA CARR; A.B., Duke; MUSIC (Formerly Supervisor Music, Durham County Schools).

WILLIAMS, JAMES WESLEY; A.B., Duke; B.S., Georgia School of Technology; ASSISTANT IN ENGINEERING (Duke University).

## DUKE UNIVERSITY SUMMER SCHOOL

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Duke University, located at Durham, North Carolina, includes Trinity College, the Woman's College, the Graduate School of Arts and Sciences, the Schools of Religion, Law, Medicine, Nursing, and Forestry, the Department of Education, and the Division of Engineering. The student body is drawn from the entire United States, with a representative group of foreign students. The summer enrollment is smaller than that of the regular year, but with a somewhat larger representation of graduate students.

In 1937 there was a total of 2,953 registrations in Duke University Summer School and affiliated schools. Of these registrations 1,741 students were enrolled in the first term of the Duke University Summer School, 308 the second term, and 699 the third term; 205 were enrolled in the Junaluska Summer School, Inc., and Junaluska School of Religion at Lake Junaluska; and 102 were enrolled in the Medical School and the School of Nursing. There were 976 graduate students the first term, 187 the second, and 396 the third, admitted on the basis of Bachelor's degrees from 255 different colleges and universities. The total enrollment for the summer was drawn from thirty-nine states, as well as the District of Columbia, Puerto Rico, Canada, Cuba, and Japan. The larger enrollments were from North Carolina, Pennsylvania, Florida, West Virginia, Georgia, South Carolina, Virginia, New Jersey, Mississippi, Tennessee, New York, Maryland, and Kentucky in the order named. Public school teachers from thirty-three states were included in the total.

### CAMPUS AND BUILDINGS

Duke University is located on two campuses connected by prompt and inexpensive bus service. Including the Duke Forest of approximately 4,750 acres, most of which is adjacent and easily accessible to the West Campus, the campuses contain 5,200 acres. The forest is being developed as a field laboratory for demonstration, research, and other educational use by the forestry, botany, and zoology students. Both campuses will be used by the Summer School of 1938. The West Campus will be used for the graduate students, both men and women, both terms, and for undergraduates the last six weeks. This campus, with its Tudor Gothic architecture, has all dormitories, laboratories, classroom buildings, auditorium, administration building, and the buildings of the professional schools conveniently grouped around the quadrangle dominated by the University Chapel. On one corner immediately beyond the Chapel is the General Library, the largest in the Southeast. Opposite the Library is the Union, center of student activities, one of the most complete buildings of its kind to be found in American institutions. In it are housed practically all the facilities needed in the general day-by-day round of stu-

dent life, including a large social lobby, reading-room, information office, alumni and news service headquarters, five dining-rooms, reception rooms, headquarters for various student organizations, the government post office, the University Store, a complete haberdashery, and a barbershop.

The East Campus, which during the academic year houses the Woman's College, will be used exclusively for undergraduates the first six weeks of Summer School. All undergraduate women will be housed on this campus, all undergraduate classes except in laboratory science (chemistry, physics, and zoology) will be held there, and library books reserved for the use of undergraduate courses will be reserved in the East Campus Library. The dining-room and other facilities will be fully available for the use of undergraduate students the first six weeks. Southgate Dormitory, which during the academic year is used by the engineering students, will be reserved for undergraduate men the first six weeks.

### CHANGES IN CALENDAR FOR THE SUMMER OF 1938

On account of the growth of the first term of Summer School, there will be no middle term for the summer of 1938. Apparently the first term registration will fill both dormitories and classrooms without making possible any registrations for the middle term.

Since the middle term has been discontinued, the first term instead of beginning Wednesday following the first Sunday in June will begin Monday, June 13, thereby making it possible for students who register in advance to enter classes as late as Friday morning, June 17. Students who enter late, however, are marked absent from classes held prior to their entrance, and the student who has more than four absences cannot receive full credit for the term's work. The five-day postponement in beginning the first term of Summer School means that the second cannot close until September 3. Since many students have found it exceedingly hard to complete twelve weeks' work in one term of Summer School, students are advised to register for only eleven weeks and take advantage of the early examinations closing August 27. This means that the student who enters the first term of Summer School and continues for five weeks of the last term, completes a full "summer quarter," or an exact one-third of the year now required for a Master's degree (see "New Requirements for Master's Degrees").

### CALENDAR AND REGISTRATION

The first term of Summer School will open June 13 and close July 23. The second term will open July 25 and close September 3. Students who desire a summer "quarter" of eleven weeks to complete one-third of a regular year's work, for example, one-third of the work required for a Master's degree, can complete such work in the period from June 13 to August 27. All Mondays except June 27 and August 29 are holidays. July 4 will be observed as Independence Day.

For the first term, Monday, June 13, is registration day. Any students who have not previously registered by mail should be present at

9 A.M. and 2 P.M. to submit their credentials for admission, select courses, and make arrangements concerning board and lodging. Students arriving after 5 P.M. Monday will register the next morning at 8:30.\* Regular classes will begin Tuesday morning at 8:00. Students will find schedules posted on the bulletin board prior to registration.

For the second term, Monday, July 25, is registration day, and classes will begin Tuesday morning at 8:00.

### ADMISSION

Applicants for admission must have completed a high-school course. As evidence of this, a teacher's certificate of grade as high as North Carolina elementary will be accepted from teachers with two or more years of experience. Certificates and other credentials must be submitted to the Committee on the Summer School at the time of registration. Students who wish to enroll for graduate credit should submit their credits from other institutions to Dr. William H. Glasson, Dean of the Graduate School, before registration, preferably by mail. Undergraduate students should apply to the Director of the Summer School for a special blank to be signed by the dean of the college to which they desire their credits sent, certifying approval of the courses for which application is made. The Summer School reserves the right to reject any application or to cancel any registration without assignment of reason.

### CREDITS

Professional credits towards teachers' certificates are granted by the various state boards of education, each in accordance with its own carefully planned rules. Teachers should consult the rules laid down by their State Board of Education before enrolling for certification credit. Any student, however, whose work is of such quality as to deny him credit toward a degree, fails to receive "professional" credit.

College credits are offered as follows: A course of five hours a week for six weeks counts for two semester-hours of credit, a course of seven and one-half hours a week for six weeks counts for three semester-hours of credit, and a course of ten hours a week for six weeks counts for four semester-hours of credit in Duke University. No student is allowed to take more than fifteen hours of work a week without the consent of the Director and of the instructor in whose department the students expects to do his major work.\*\* Except in the case of elementary laboratory science, in which eight semester-hours may be completed in seven weeks, the University will not accept credit beyond six semester-hours earned in one term toward the Bachelor's degree. Graduate students are not under any circumstances permitted to enroll for more than six semester-hours in a summer school of six weeks. They forfeit graduate credit by undertaking more than six semester-hours of work,

\* N.B.—Students who register late are marked absent for all classes held prior to their registration. Late registration very seriously affects credits that may be obtained.

\*\* No student liable to suspension from the University under its rules regarding failure is permitted to enroll in the Summer School.

even though part of the work may carry undergraduate credit only. A student of senior standing, however, may elect as many as eight semester-hours of such elementary-skill work as drawing, public school music, and the like, that do not carry college credit, or courses primarily for Freshmen and Sophomores, and obtain such professional credit as his State Department of Education will allow, not to exceed the maximum eight stated. The North Carolina State Department of Education disapproves of more than seven semester-hours in one term of six weeks.

The nature of the credit allowed for each course is indicated by the number of the course. Courses numbered 1-49 are primarily for Freshmen, or Freshmen and Sophomores; courses numbered 50-99 are ordinarily for Sophomores, or Sophomores and Juniors; courses numbered 100-199 are for Juniors and Seniors; courses numbered from 200-299 are for Seniors and graduates; and courses numbered from 300 up are for graduate students only and are of very limited enrollment. Courses numbered from 200 up are limited in enrollment to twenty-five students, and during the summer consist almost exclusively of graduate students.

Students registered for graduate courses in the Summer School, who desire to have their work credited toward the Master's degree, should also register in the office of the Dean of the Graduate School during the first week of each summer term.

### EXAMINATIONS

The last two days of each term of six weeks are devoted to examinations. The University has no provisions for giving examinations *in absentia*, but students absent from examination for valid reason are permitted a liberal extension of time in which to return to the University for completion of credit.

The early opening of schools in which many summer school students happen to teach, sometimes necessitates the return home of students before the end of the third term of Summer School. The provision made for such students is as follows: Any student whose record is superior in a given course may with the consent of his instructor and the approval of the Director of the Summer School obtain a special examination not earlier than the fifth day before the regularly scheduled examination. If he takes such examination, the total credit in each course is reduced by one-sixth; in other words, the student is interpreted as having completed five weeks of Summer School, and his maximum allowable credit, therefore, is five semester-hours.

### NEW REQUIREMENTS FOR MASTER'S DEGREES

The Southern University Conference consisting of leading educational institutions of the South interested in graduate work has agreed that Master's degrees in summer school should represent a full year of residence as the term residence is understood during the academic year, exclusive of holidays and other interruptions of the academic year. This means a minimum period of thirty-three weeks and has these effects among others:



1. The extended period (of thirty-three weeks instead of thirty) makes it possible to give students preparing to write Master's theses a better opportunity to prepare for their thesis writing. In some departments research courses in which the student may do certain elementary preliminary work on his thesis have already been provided.

2. The period of thirty-three weeks conveniently divides into three periods of eleven weeks each, making it possible for the Summer School to begin nearly a week later and give the student a full period of eleven weeks well before the last day of August. For some time it has been hard to work in a full period of twelve weeks without serious inconvenience to many students by way of early entrance for the first term or getting away late from the last term. Under the new plan students are advised not to try more than eleven weeks (eleven semester-hours of credit) in one summer. However, for those students working under the old rules who wish to obtain twelve weeks' credit this summer, a full period of twelve weeks has been provided as announced in this bulletin.

3. The extended period makes possible a revision of the Master of Education degree in such a way as to abolish the thesis requirement and substitute work of probably greater value to the student. The requirements of the new Master of Education degree are set forth in the following paragraphs. It will be observed that they are probably more difficult than the old requirements, but the good student will probably have more when he completes them than he would have had under the old requirements including a thesis.

Students who have already started Master's degrees under regulations that have been enforced prior to 1938 will have the normal time in which to complete their degrees under the old plan. The new requirements are sufficiently different from the old to make it hard for students with more than twelve semester-hours of credit under the old plan to transfer to the new without loss. Anyone who transfers will be responsible for a minimum of thirty-three semester-hours, or a residence period of thirty-three weeks. (Under "Graduate Instruction" two pages further along in this bulletin, the details of the new requirements are set forth.) The principal changes in the requirements for the Master of Arts degree are the new minimum residence period of thirty-three weeks (five and one-half terms of six weeks, or three "quarters" of eleven weeks), the more specific statement of undergraduate prerequisites (see the introductory statements under each department of instruction that offers a Master's sequence in Summer School), the requirement in most departments of a pre-thesis research course, in which, however, the student will ordinarily have some opportunity to get a start upon his thesis. This, in effect, gives the student nine weeks of supervision for his thesis at the same time that it clears up the status of some of the research courses.

The changes in the Master of Education requirements are more radical. They not only require a minimum residence period of three "quarters" or five and one-half summer terms of six weeks, but they abolish the thesis requirement heretofore made and substitutes the following work with final written examination upon each part:



(A) Four courses intended to help the student learn to read independently and obtain a basic understanding of education and the school, these courses being conducted on a plane analogous to Honors reading and described as follows:

**Education S300.**—The place of educational research, its methods of procedure, evaluation of results, special problems, etc.

**Education S304.**—The school as an institution—the place of the school in society, its history, and philosophy.

**Education S305.**—The nature, function, and organization of the curriculum.

**Education S317.**—The psychological principles of education—an advanced study of teaching, learning, and the learner.

(B) The work of the minor department, including any undergraduate prerequisite the student finds it necessary to study by supervised outside reading. (For example, many teachers of history and social studies have not had undergraduate work in government or economics or sociology, yet they wish to take their minor work in this missing department in order that they may have a better background for their teaching. Under the new plan, the Summer School can encourage this desirable strengthening of preparation in the subject matter by giving reading lists based on the preliminary undergraduate work in order that the student may have the background to go on with the minor of his choice. It would seem that a teacher of American history, for example, can by independent reading and a minimum of supervision obtain the elementary knowledge of American government necessary as a basis for minor work. It is the policy of the Summer School to encourage through the Master of Education degree independent reading as a basis for the minor as well as for the four "core" courses listed above.)

(C) Carefully defined major work in (a) public school administration, (b) public school supervision, (c) elementary education, or (d) secondary education, as the professional major. (It will be observed that the degree is intended for those who definitely desire their work for professional purposes. The Master of Education degree is, therefore, not offered with a major in educational psychology or history of education. Students in these two fields would be expected to enroll for the Master of Arts degree.)

It is apparent that students in education are offered a choice between the Master of Arts degree with a major in education and the Master of Education degree. Either degree may be completed within a minimum residence of three summer "quarters" of eleven weeks each, or five and a half summer terms of six weeks each. Both degrees are administered by the Graduate School, and only graduate courses are approved for the degrees. Students who subsequently decide to go on to the Doctor of Philosophy degree may have their credits for either Master's degree evaluated toward the higher degree.

## GRADUATE INSTRUCTION IN THE SUMMER SCHOOL

### ADMISSION TO GRADUATE COURSES

Students who have received a Bachelor's degree for a four-year undergraduate course from a college of sufficiently high standing may be admitted to take courses in the Graduate School of Arts and Sciences of Duke University. The department concerned will determine whether a student is prepared to take any particular course. *Admission to graduate courses does not necessarily imply admission to candidacy for a degree.*

A candidate for admission as a graduate student should present an official transcript of his undergraduate record certifying that he has received a Bachelor's degree from a college or university which is a member of the Southern Association of Colleges and Secondary Schools or of one of the similar associations in other sections of the country (provided that the degree must have been conferred after the admission of the college or university to membership in said association); or from a North Carolina college whose Bachelor of Arts or other Bachelor's degree is accepted by the State Department of Education as the basis for issuing the high-school or primary certificate of Class A.

A degree from an institution not provided for above may be accepted when an investigation of the individual case makes it appear that the applicant is able to undertake graduate studies. Admission of such students will generally be conditional, and full recognition of their candidacy for a degree will depend upon the completion of their first twelve semester-hours of graduate work with an average grade of "G." Students applying for admission who have received a Bachelor's degree from an approved college or university may likewise be admitted conditionally if their undergraduate records indicate unsatisfactory preliminary courses in the proposed major field. In all cases, however, the student must make up without credit toward a graduate degree all prerequisites required by the major department for admission to candidacy.

### ADVANCED DEGREES

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), and Doctor of Philosophy (Ph.D.). Most of the departments of the University are now prepared to give a full program of work leading to the degree of Doctor of Philosophy.

### ADMISSION TO CANDIDACY FOR A DEGREE

A graduate student who desires to be accepted as a candidate for a degree should file with the Dean of the Graduate School an official transcript of the record of his undergraduate work and also of any graduate courses he may have completed. He should also confer with the head, or chairman, of the department in which he desires to take his major work. Applications for admission to candidacy for the degree of Master of Arts or Master of Education should be made in the first semester or in the first summer term of graduate work, and for the degree of Doctor of Philosophy early in the second year of graduate work. Before receiving recognition as a candidate for a degree, the student must satisfy both the general requirements of the Graduate School and the special requirements of the department in which he is taking his major work.

### THE DEGREE OF MASTER OF ARTS

#### Language Requirements:

Candidates for the degree of Master of Arts are required to have a reading knowledge of two foreign languages, evidenced by examination or by credit obtained for at least six semester-hours of college work in each. If this requirement has not been satisfied before admission to candidacy for the degree, the required foreign language work must be completed be-

fore the degree is conferred but will not be counted for credit toward the degree. The two foreign languages offered must be acceptable to the department in which the candidate is taking his major work.

**Minimum Residence Requirements:**

For graduate students who take more than fifteen semester-hours for the Master's degree in the Summer School the minimum residence requirement is thirty-three semester-hours of graduate credit. Graduate students may not receive more than six semester-hours of credit for work taken in one summer session of six weeks. The degree of Master of Arts or Master of Education thus can be earned in six such summer sessions by students who are well prepared for graduate work, or by careful planning of thesis residence in an absolute minimum of five and one-half terms.

Most students planning to complete a Master's degree within a series of summer schools should plan to spend six terms of six weeks each in residence. No student admitted conditionally will be permitted to offer the minimum of thirty-three semester-hours of graduate credit for the Master's degree but will be required to spend six full terms in residence. Students, the greater part of whose work for their first eighteen weeks in graduate summer school is in the upper quarter of the work in their department, as determined by the department and approved by the Dean of the Graduate School, may plan a schedule of work enabling them to complete a Master's degree with the minimum of thirty-three semester-hours of credit (that is, thirty-three weeks of resident study), including a satisfactory thesis.

All the work offered for the Master's degree, either in the regular academic year or in summer sessions, must be completed within a period of six years from the date of beginning. Graduate courses begun earlier than six years before the completion of the work for the degree will not count either toward residence or course credit requirements.

**Major and Minor Subjects:**

Before selecting his major in a department, a student must have completed a minimum of twelve semester-hours of approved *preliminary* courses in that department and twelve additional semester-hours either in that department or in related work. This minimum is imposed by the Graduate School Council. A majority of the departments of instruction require at least eighteen semester-hours of undergraduate work, and a few require more. The student therefore should read carefully the special requirements listed by each department in the *Graduate* or the *Summer School Bulletin*.

Each candidate for the Master's degree must select a major subject in which the minimum requirement is twelve semester-hours and the thesis. A candidate must take six semester-hours of graduate work in a minor subject approved by the major department, and the remaining nine semester-hours in the major or minor subjects or in a department approved by the major department and by the Graduate School Council. All graduate students must take a minimum of six semester-hours work in courses numbered 300 or above unless excused therefrom by the Dean of the Graduate School on the recommendation of the major department. No undergraduate course may be credited toward the degree of Master of Arts.

**Thesis:**

In the minimum residence requirement of thirty-three semester-hours of graduate credit is included an allowance of six semester-hours for a thesis. The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts must be approved by the department concerned and filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred.

Four bound typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 15 of the year in which the degree is conferred. The thesis is passed upon and accepted or rejected by an examining committee of three members of the

Faculty. Each candidate is required to appear before the committee for an oral examination on the thesis and major field.

#### **CREDIT TOWARD THE MASTER'S DEGREE FOR WORK DONE ELSEWHERE**

No credit toward advanced degrees is given for university extension or correspondence courses.

Not more than six semester-hours of credit toward the Master's degree may be given to graduates of Duke University or of other approved colleges or universities for acceptable graduate courses or research work completed elsewhere. Such credit will not shorten the minimum period of full-time resident study required at Duke University.

#### **SUGGESTED PROGRAM OF WORK TOWARD THE MASTER'S DEGREE**

A committee of the Graduate School Council has drafted the following recommendations respecting the student's program of work toward the Master's degree:

**First term:** two courses in the major department, usually from numbers 200 to 299.

**Second term:** one course in the major department, and one course in the minor department, or two courses in the minor department.

**Third term:** one course in the major department or one course in the minor department, and a general course in research methods if such a course is offered by the major department. A thesis subject should be tentatively selected and filed with the signed approval of a professor willing to supervise it, and the head of the major department (or the approved representative of the major department in charge of summer school work) before the beginning of the third week of the third term.

**Fourth term:** one course in the major department or remaining course in the minor department (if for any reason there is a remaining course in the minor). The remaining time of the fourth term should be spent in provisional work upon the thesis under at least preliminary supervision of the major professor. The filing of the title in the Graduate Office should be made permanent.

**Fifth term:** one course in the major department, and half time devoted to the thesis under the active supervision of the major professor.

**Sixth term:** same as the fifth.

This plan will require eighteen semester-hours of work in the major department and six in the minor department, as were required by the former rules, plus a course in research methods in the major department (or substitution elsewhere provided below) and will allow one-half of the student's time for three summer terms to be devoted to his thesis work. By approval of the department and of the Dean of the Graduate School, the minor work may be enlarged at the expense of the work in the major department. If the major department does not offer a generalized course in research methods, some other course numbered 300 or above either in the major or minor department may be substituted with the approval of the Dean of the Graduate School.

#### **DEGREE OF MASTER OF EDUCATION**

The degree of Master of Education is granted to teachers, or others engaged in educational service, upon completion of the prescribed program of study. Candidates for the degree must have had two years of practical experience in teaching when the degree is conferred. This experience may be obtained in the two years immediately prior to entering upon candidacy for the degree, or it may be obtained concurrently with the period of study for the degree.

A preliminary requirement for admission to candidacy for this degree is the completion of a minimum of eighteen semester-hours of approved



undergraduate work in education, including work in educational psychology and in history of education, educational sociology, or school administration. Three hours of general psychology may be counted as contributing toward these prerequisites.

Beginning in the summer of 1938, all students who are entering Duke Summer School for the first time to work for the Master of Education degree must conform to the new requirements. Those students who have already begun their course of study leading to the Master of Education degree will be permitted to transfer to the new plan if their credits indicate such transfer to be feasible and if the transfer has the approval of the Chairman or of the Director of Graduate Study of the Department of Education. In general, students who have completed more than twelve semester-hours of work are strongly advised not to attempt the transfer, because of the serious loss of credit that they would usually suffer. Furthermore, all students contemplating the change should realize that they would be required to spend at least three additional weeks in residence and probably more by reason of the more specific requirements of the new plan. If, after reading the statement below of the new requirements for the Master of Education degree, the student still desires to adapt his program to the new regulations, he should address an inquiry for further information to the Director of the Summer School or the Chairman of the Department of Education. Students under the old plan in all other cases will be required to complete their work for the degree under the regulations in the *Summer School Bulletin of 1937*.

Candidates for the Master of Education degree must take a minimum of thirty-three semester-hours of graduate work in residence at Duke University, classified as follows:

(1) Twelve semester-hours of generalized work in education, as explained below.

(2) Six to twelve hours of minor work.

(3) Nine to fifteen hours of an intra-departmental, or "professional," major.

The twelve semester-hours of generalized work, analogous to Honors reading, will be followed by a comprehensive written examination at the close of the thirty-three weeks. This work will be based upon four courses of three semester-hours each, consisting of Education S300, S304, S305, and S317, of which the student must take one and will be permitted to take as many as two in class, although the readings and examination will go beyond class work. For the two or three courses the student does not take in class, he will be allowed free time in his third and subsequent terms of summer school.

For the six to twelve semester-hours of minor work, the following suggestions are offered:

(a) For those candidates whose intra-departmental, or "professional," major is public school administration, six hours in political science, economics, sociology, or other work especially listed as "related courses in other departments for majors in public school administration."

(b) For those whose professional major is public school supervision, six to nine semester-hours in psychology, educational psychology, or a combination of the two, or sociology, or in specifically designated "related courses" for supervisors.

(c) For those whose professional major is secondary education, six to twelve hours in their teaching field(s), with twelve hours strongly recommended.

(d) For those whose professional major is elementary education, six semester-hours in psychology, educational psychology, or an approved combination of the two, or in child welfare and development (wholly in sociology, or partly sociology and psychology or educational psychology, if a satisfactory combination can be worked out).

The nine to fifteen semester-hours of the professional major may be in the field of public school administration, public school supervisions, secondary education, or elementary education.

At any time after the completion of his minor and his professional major, the student can take the general examinations on these two phases of his program on the days designated for them. Upon the fulfillment of all residence requirements, he will be given a comprehensive written examination upon the twelve hours of generalized readings. Any of these examinations may be rejected upon the grounds of poor usage of English.

As in the case of the requirements for the Master of Arts degree, all work presented for the degree must be completed by the candidate within a period of six years from the date of beginning. Graduate credits from other approved institutions may be accepted up to a maximum of six semester-hours, but such acceptance of credits will not lessen the requirements of study in residence at Duke University.

#### DEGREE OF DOCTOR OF PHILOSOPHY

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult, or enter into correspondence with, the Dean of the Graduate School and the heads of the department concerned. He will then be advised as to the possibility of securing the necessary instruction and supervision of research in the desired field. Credit for one year of graduate work done in summer school sessions may be given with the approval of the Graduate School Council and the department in which the student takes his major work.

#### THESIS WRITING IN SUMMER SCHOOL

Since Duke University grants no Master of Arts degree except upon completion of a satisfactory thesis, every candidate for that degree who expects to complete his work in Summer School should as soon as possible after completing his first term of residence choose a field in which he desires to write a thesis and confer with some instructor offering graduate courses in that field. The following points should be kept clearly in mind when arrangements are made for thesis supervision:

1. The subject of the thesis must be approved by the instructor who undertakes the supervision. The instructor's decision as to whether the topic is suitable, or the student is prepared to develop it, or the instructor prepared to supervise it, is final.

2. A student may enroll for six semester-hours of residence credit towards a thesis or for less, in one term of six weeks. If he enrolls for only three semester-hours he may enroll also for a course of three semester-hours, but he cannot enroll for a total of more than six semester-hours of credit, including residence toward his thesis. Completion of six semester-hours of residence toward his thesis does not guarantee the satisfactory completion of the thesis, which must be acceptable to the instructor supervising it and to a committee representing the Council on Graduate Instruction. Students who do not complete their theses the first term they register for supervision have the privilege of registering a second term upon payment of regular dues, but are not required to do so. Since the numbers permitted to enroll in thesis seminars are strictly limited, such students are not permitted to register for a third term of supervision.

3. A student may either enroll in a specifically designated "thesis" course or, if his preparation meets the approval of the instructor in charge, attach himself to some regularly offered course in his field of study and report periodically to the instructor offering the course.



4. A student enrolling for thesis residence credit in regular course pays the same fees as other students during the summer of residence. At the time of graduation he pays the same diploma and commencement fees as other students and thesis supervision fee of \$25.00.

5. Students enrolling for thesis supervision during the Summer School are expected to complete their theses largely during the summer of enrollment or some subsequent summer term. The instructor with whom they enroll is not under obligation to give active supervision during the academic year, although instructors are willing to give a reasonable amount of attention to theses practically complete. Similarly, instructors in Duke University who are not teaching in the Summer School are not expected to undertake the supervision of theses written by summer school students.

6. Students of the academic year who do not complete theses begun prior to Summer School are not accepted for summer school enrollment unless their subjects are in the field of some thesis seminar or other course offered by an instructor who recommends that such students be assigned to his supervision during the summer. Instructors who are employed for full time by the Summer School are specifically requested not to carry over into the summer thesis students whose subjects are not properly a part of work such instructors are offering in the Summer School.

### ROOMS AND BOARD

Board and room for a term of six weeks may be secured in the men's dormitories at the rate of \$51.50 for a single room, \$46.50 for each occupant, with two in a room, or \$59.00 if double room, alone, is engaged. On account of extra service the rate in the women's dormitories is one dollar a term higher; that is, \$52.50 for a single room, \$47.50 for each occupant, with two in a room, and \$60.00 for a double room, alone. These rates both for men and women are in each case one dollar lower than the total for board and room counted separately. Many of the rooms on the East Campus are single rooms; on the other hand, on the West Campus there are very few single rooms, most of these on the third floor. During the first term, graduate students will live on the West Campus, and undergraduates on the East. During the terms when all students will live on the West Campus, separate dormitories will be reserved for graduate students and for undergraduates. There is no dormitory reserved for married students, and under no circumstances will children be admitted to the dormitories. Students who desire to bring children, or married students who desire rooms, should write the Director for a list of private rooming places where suitable accommodations may be obtained. Occupants of University rooms furnish their own bedclothes, pillows, and towels. All other essentials are supplied by the University.

The rules and regulations in all dormitories are substantially the same as those for the regular academic year; but *in the graduate dormitories all radios, phonographs, and other noise-making appliances are strictly forbidden.*

All occupants of University dormitories are advised to board in the regular dining-room of the Union, where at meal time there is the opportunity to meet with fellow-students, and where, because board is furnished at cost, the greater number of students guarantees better board for all. The service is cafeteria plate-service. Men who live in the dormitories

but desire to board elsewhere than in the regular dining-room will pay room-rent at the rate of \$17.50 for a single room, \$12.50 for each occupant, with two in a room, or \$25.00 for a double room, alone; and women, at the respective rates of \$18.50, \$13.50, and \$26.00. Students who room off the campus but desire board in the Union may obtain it for thirty-five cents a meal, or \$35.00 for the six weeks. Students who present their receipted room reservations at the time of purchasing meal-tickets for the term are allowed a discount of one dollar from the \$35.00 rate for their meal-tickets, as stated above, this accounting for the combination room- and board-rate quoted above. Since the sole purpose of this discount is to encourage a larger volume of business in the regular dining-room and thereby to obtain the best possible board for the large majority of students who take their meals there, it is not effective in the Union Coffee Shop, where the more expensive *a la carte* service may be obtained by those who prefer it.

### FEES

Teachers in active full-time service in schools and colleges are exempt from tuition fees for as many as four terms of six weeks in a period of six years. After their fourth term they pay regular tuition charges. All other students are charged a tuition fee of \$3.00 for each college-credit hour, or \$4.00 for each semester-hour, maximum tuition being \$24.00 for six weeks, or \$30.00 for courses running seven weeks. All students, teachers included, pay a registration fee of \$17.50 per term. Students in the sciences pay the laboratory fees required in regular term, and students writing theses pay the regular commencement charges at the time of receiving their degrees, and the special supervision fee of \$25.00.

Major expenses may be estimated as follows for each term:

Registration .....	\$17.50
Room-rent and board .....	47.50
Total major expenses to teachers .....	<u>\$65.00</u>

In the men's dormitories, as has been stated, the charge for rooms is one dollar less, making the total major expenses for occupants \$64.00. To these totals should be added the tuition fee of \$24.00 charged students other than teachers in the public schools and also charged teachers who have already received four terms exemption, about \$7.00 for books, and probably \$3.00 for miscellaneous expenditures. All claims for exemption from tuition should be filed at the time of registration.

### RESERVATION IN ADVANCE

Classes are of limited enrollment. All applications for registration in classes, as well as applications for rooms, are filed in the order in which they are received. Each application for a reservation should be accompanied by a check for \$5.00 in part payment of the registration fee. Such reservation is designated a "general reservation" and simply guarantees a place, subject to the right of the Summer School to cancel, in one of the

dormitories and in classes. Students who make such reservations will select, upon their arrival at the University, the specific rooms they are to occupy. *No specific rooms are assigned except upon receipt in advance of full room-rent.* Floor plans of dormitories will be sent upon request to students who wish to make specific reservations of rooms.

Because of the rapid growth of the Summer School, making it uncertain that late applicants will be able to find room on the campus, *students are urged to reserve specific rooms in advance.* They may reserve specific rooms by paying, at the time the reservation is made, the regular charge of \$17.50 (or \$18.50) for a single room, \$12.50 (or \$13.50) for a room with a roommate, or \$25.00 (or \$26.00) for a double room alone. Specific room reservation for the first term may be made at any time. Since the total registration for the first term affects the decision as to which buildings are to be used for the second term, specific reservations for second term should not be requested before July 10. Students who pay their room-rent in advance are allowed until May 25 to select a roommate. Adjustments may be made as to roommates within the first three days of the term. No room may be reserved by more than two students, but adjoining rooms may be reserved by groups who desire to be together. Students who enroll for the first term have priority in reserving their first-term rooms for the last term.

During the first term all undergraduate classes, except those in chemistry, dramatics, forestry, and physics will meet on the East Campus; all other work will be offered on the West Campus. During the second term, all classes will meet on the West Campus. Each campus has its complete equipment immediately available—classrooms, library, dining-rooms, health department and recreational facilities, bus service to the other campus and to town, etc. Since the two campuses are about a mile apart, students are advised to live on the campus where their classes will be held. Exception is made in the case of students of undergraduate-college age, for whom rooms will be reserved only on the East Campus during the first term.

### APPOINTMENTS BUREAU

A Teachers' Appointments Bureau is maintained for the benefit of teachers desiring a change of position. There is no charge for this service.

### RELIGIOUS SERVICES

University religious services are held each Sunday morning at 11:00 o'clock, to which all students are invited. In the summer of 1937 the student choir, a voluntary organization, enrolled 198 students. A series of organ recitals are also given Sunday afternoon and at other times each week in the University Chapel.

### RECREATION AND ENTERTAINMENT

At the time of registration every student receives a season ticket to all recreation and lecture programs. In addition to admission to special

lectures, and other features of entertainment provided, this ticket entitles the student to use of the tennis courts and of the swimming pools, which are open an hour and a half daily for various groups of students. There are also an evening play-hour sponsored by the Department of Physical Education and a Sunday evening "sing" that has grown to be a tradition among the quadrangle students.

Mr. Anton Brees, Carillonneur of the Mountain Lake Singing Tower, Lake Wales, Florida, will give recitals on the fifty-bell carillon of the University at stated times twice a week during the Summer School.

The national honor society in education, Kappa Delta Pi, maintains a weekly forum to which all students are invited.

State clubs, organized by students from the states best represented in the student body, chiefly the students from West Virginia and Pennsylvania southward to Florida and Mississippi, co-operate with the Social Director to provide wholesome recreational life for the students. At the beginning of each term the management of the University Union co-operates with the state clubs to provide an all-state dinner. The first Tuesday evening of each term is set aside for the opening general assemblies of students and Faculty.

### COACHING SCHOOL

The Athletic Department of the University conducts a one-week coaching school for high-school coaches, July 25-30. Registration for the school is \$10.00. The courses will be offered by Coach Wallace Wade and his staff and will include football, basketball, track, and boxing.

### AFFILIATED SUMMER SCHOOLS

The Junaluska Summer Schools, Inc., Lake Junaluska, N. C., is an independent school affiliated with Duke University. It has for the summer of 1938 been combined with Junaluska School of Religion and will offer undergraduate courses in field botany, economics, elementary education, English, sociology, Spanish, and religion. The only graduate work offered toward the A.M. degree will be in the field of botany, but the Junaluska School of Religion offers credits toward the B.D. degree. (For further information address Dr. Paul N. Garber, Director, Duke University, Durham, N. C., and see description of courses, pages 57-61, this bulletin.) Junaluska Summer School will begin its single term June 10 and close July 22, making it possible for a student attending Junaluska to transfer to Durham in time for the second term, July 25 to September 3.

### SCHOOL FOR WORKERS IN CHILDREN'S HOMES AND ORPHANAGES, JULY 25 TO AUGUST 13

In co-operation with the Tri-State Conference of Orphanage Workers the Summer School will operate a three-weeks school for the in-service training of teachers and personnel employees in the children's homes and orphanages of Georgia and the Carolinas. The program will consist of a regular ninety-minute period daily in Child Welfare, a sixty-minute lec-



ture period daily, followed by open forum discussions on problems connected with child welfare, social service, and institutional administration, and evening lectures of broad cultural interest. Monday, July 25, will be registration day, and lectures will begin that evening. Monday, August 1, will be a holiday in order to give the students attending opportunity to visit near-by points of interest in their work. These students will receive the same consideration as teachers in the public schools and will be exempt from tuition charges. Their total expense for board, room, and fees, with two persons to a room, will be \$32.00 for the three weeks, or \$38.00 if room alone is engaged. A certificate of attendance and of work completed will be given at the close of the school, but it has not been arranged to offer credit toward college degrees for the work. For further information, address the Director of the Summer School, Duke University, or Mr. I. G. Greer, President, Tri-State Conference of Orphanage Workers, Baptist Orphanage of North Carolina, Thomasville, N. C.

### SUMMER SCHOOL OPPORTUNITIES FOR GRADUATE STUDENTS

A majority of the students in the Summer School are graduates of standard colleges, most of them supervisory officials and teachers in the public schools. Departments of instruction, therefore, offering courses related to the common secondary-school curriculum have built up regular sequences of graduate work continuing through a series of summer schools in which graduate students may enroll with reasonable assurance that sufficient work will be offered to enable a properly qualified student to complete Master's requirements easily within the period permitted by the University. Departments in which sufficient demand for graduate courses has developed to enable students to complete Master's degrees are Botany, Economics, Education, English, French, History, Mathematics, Political Science, Psychology, Religion, Sociology, Spanish, and Zoology. It is intended to add complete sequences in other departments as rapidly as demand justifies. The Department of Religion offers work toward the B.D. degree, and students in that department can also obtain B.D. work in the affiliated summer school at Lake Junaluska. In the Department of Education complete sequences of work for the Master's degree are offered in the divisions of public school administration, public school supervision, secondary education, educational psychology, and elementary school education. This variety of offerings should cause students in this department to be especially careful to select a unified course.

In all departments a graduate student must select his minor subject to the approval of his major department. Under "Courses of Instruction," pages 29-55, this bulletin, specific regulations and suggestions of departments are given. It is important for all degree candidates to choose their courses according to some unified plan. Mere accumulation of more or less unrelated credits in various divisions of a department with a minor in some department only remotely related to the student's major work will not be accepted as meeting requirements for a graduate degree.

Students are advised to choose their first term's work along the line of their major interest and then each succeeding term exercise increasing care in advising with their major professor and the Dean of the Graduate School as to properly related work.

### **SPECIAL NOTICE TO NORTH CAROLINA TEACHERS**

The North Carolina State Department of Education has requested that publicity be given to the following announcement:

As of July 1, 1940, and thereafter, the Class A Certificate built up from a lower grade certificate will be based upon a satisfactory completion of the requirements for a degree from a standard college, along with, or in addition to, the specific certificate requirements. It is suggested that those teachers in service who may not reasonably be expected to qualify for the Class A Certificate prior to September 1, 1939, arrange their program of studies in co-operation with the institution from which they would like to obtain the degree.

Teachers who are expecting a change in their certificate for 1938-39 as a result of their summer school work, should wait for four weeks before making any inquiry of the State Department of Public Instruction. The number of records handled makes it reasonable to assume a month's time will be required for issuing the certificates growing therefrom.

Teachers who are expecting their certificates to be raised as a result of summer school attendance should not send their old certificates to the State Department of Public Instruction. This is not necessary for the issuance of the new certificate.

Teachers should not send to the State Department of Public Instruction their personal reports of summer school work. The report must come direct from the institution, and it will be sent by the institution if the teacher has properly registered, giving exact name, serial number of certificate held, etc.

Any North Carolina public school teachers, therefore, who do not expect to raise their certificates under the present plan before September 1, 1939, should be especially careful to take the precise degree requirements of the institution they attend this summer.

Undergraduate teachers planning to register for Bachelor's degrees from Duke University should correspond with Dr. Walter K. Greene, Dean of Undergraduate Instruction, and bear in mind the following elementary minimum requirements for all groups of studies leading to the A.B. degree: English, six semester-hours; natural science, eight; economics, history, or political science, six; one foreign language completed through the third college year, twelve or eighteen semester-hours; and religion, six.

### **COURSES EMPHASIZING PUBLIC SCHOOL CURRICULUM RECONSTRUCTION OFFERED IN THE SUMMER OF 1938**

Courses in public school curriculum reconstruction will be emphasized in the summer of 1938 as in the three preceding summers. Interested persons are referred to the courses listed under Secondary and Elementary Education, on both graduate and undergraduate levels. More than three hundred teachers in the public schools were enrolled in these courses in the summer of 1937.



# COURSES OF INSTRUCTION

## EXPLANATIONS AND ABBREVIATIONS

Classes meet daily five times per week for six weeks unless otherwise indicated. Classes that meet for sixty-minute periods are indicated as carrying two semester-hours of credit. Classes meeting eighty-five minute periods daily count for three semester-hours except where credits are stated otherwise. Courses are arranged alphabetically by departments. The course numbers are the same numbers used in describing courses in the regular term, with the letter "S" preceding; for example, Chemistry S1 would correspond to Chemistry 1 of the regular term.

The following abbreviations occur: the numeral *I* means that the course comes the first sixty-minute period daily, beginning at 8:25; *2*, the second sixty-minute period, beginning at 9:45; *3*, the third sixty-minute period, beginning at 11:30. *A* means that the course comes the first eighty-five minutes daily, beginning at 8:00; *B* means that the course comes at the eighty-five-minute period, beginning at 9:45; *C* means that the course comes at the eighty-five-minute period beginning at 11:30; *I* means that the course is offered the first term; *II*, that it is offered the second term, beginning July 25; *I*, *II*, that the course is offered either term. *E* means that the course is offered on East Campus; *W* on the West Campus. Unless stated to the contrary, all classes are scheduled for the West Campus; except that for the first six weeks undergraduate classes, those numbered below 200, will be scheduled for the East Campus unless statement is made to the contrary. For complete schedule of rooms and courses, students should consult the official bulletin boards at time of registration.

Periods 1, 2, and 3 do not conflict; and periods A, B, and C do not conflict; but period A conflicts with 1, B with 2, and C with 3. Terms I and II do not conflict.

N.B.—Different State Departments of Education grant professional credit for various courses in accordance with their own carefully defined rules. Every student should inquire carefully at or before registration as to what professional credit is allowed for each course in his state.

## THESIS COURSES FOR MASTER'S DEGREE CANDIDATES

It is important for every candidate for a Master of Arts degree to plan for his thesis as soon as possible after he completes his first summer school. (See suggestions for planning theses, pages 22-23, this bulletin.) Special attention is called to Education S234X, S300, S300X, S309, S322, S333X, Chemistry S275X, English S301, S308X, S314X, S327, S329, S331, French S340X, History S305, S306X, S308B, S315, S330, S333, Mathematics S390X, Physics S353X, Religion S365, Sociology S340, Spanish S371, and Zoology S353. A properly qualified student, however, may with the approval of the instructor and the head of his department attach himself to any graduate course for thesis supervision.

## BIOLOGY

See courses listed under Botany and Zoology.

## BOTANY

For admission to candidacy for the Master's degree in Botany, students must have completed a minimum of eighteen semester-hours of biological science, including six semester-hours of botany in courses numbered above one hundred. Students who have not yet had the minimum eighteen hours,

however, may enter higher courses by permission of the instructor, if he is convinced that they can carry the work, for undergraduate credit, and may count such work toward the eighteen hours necessary for candidacy.

**S203. Plant Cytology.**—A study of the structure and organization of plant cells in relation to growth and reproduction; the physical basis of heredity. *B, II. 3 s.h. (Laboratory fee, \$5.00.)* MR. ANDERSON

**S210. Mosses and Ferns.**—The structure and classification of mosses, liverworts, ferns, and fern allies, and field acquaintance with the common forms. *A, 2:00-5:00 P.M., II. 3 s.h. (Laboratory fee, \$2.50.)* MR. ANDERSON

**S226. Special Problems.**—*I, II. Credit to be arranged.* STAFF

**S359. Research in Botany.**—Individual investigation in the various fields of botany. *I, II. Credit to be arranged.* STAFF

The following courses are planned at the Marine Laboratory in Beaufort, N. C.:

**S211. Structure and Classification of Algae.**—*I. 6 s.h.* MR. BLOMQUIST

**S225. Special Problems: Taxonomy, Ecology, Morphology.**—*I. Credit to be arranged.*

**S359. Research: Taxonomy, Morphology.**—*I. Credit to be arranged.*

For particulars as to expense, etc., write the Director of the Summer School or Dr. H. L. Blomquist, Chairman of the Botany Department, Duke University, after April 15. If for any reason these courses tentatively offered at Beaufort cannot be given, other courses on the Duke campus will be substituted.

## CHEMISTRY

**S1. General Inorganic Chemistry.**—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. It is desirable, though not required that students taking this course shall have taken elementary physics either in high school or in college. *Recitation daily, 1; lecture daily, 11:30; laboratory hours to be arranged, II (July 19 to August 11). 4 s.h. (w) (Laboratory fee, \$7.00.)* MR. R. N. WILSON AND MR. HOBBS

**S2. General Inorganic Chemistry.**—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. Prerequisite: Chemistry S1. *Recitation 1; lecture daily, 11:30; laboratory hours to be arranged, II (August 12 to September 3.) 4 s.h. (w) (Laboratory fee, \$7.00.)* MR. R. N. WILSON AND MR. HOBBS

NOTE 1. Unless stated to the contrary, all classes are scheduled for the West Campus; except that for the first six weeks undergraduate classes, those numbered below 200, unless specifically indicated otherwise, will be scheduled on the East Campus. For complete schedule of rooms and classes students should consult official bulletin boards at time of registration.

NOTE 2. Unless a different limitation is stated, all courses numbered 200 or above are limited in enrollment to twenty-five students, those numbered 300 or above are limited to fifteen, and thesis seminars to ten. In exceptional cases by the consent of the instructor, the Graduate Council may extend those limitations to include not more than four additional students.

**S61. Qualitative Analysis.**—A study of the reactions of acids, bases, and salts in solution as applied to the qualitative analysis of mixtures of inorganic compounds of the more familiar elements. *Lecture or recitation daily, 9:00-10:30; laboratory daily, 10:40-12:10 and 2:00-5:00, I (June 13 to July 9).* 4 s.h. (w) (*Laboratory fee, \$7.00.*) MR. SAYLOR AND MR. STUCKEY

**S70. Quantitative Analysis.**—A number of representative quantitative analyses are carried out in the laboratory, and the underlying theory is taken up in the lectures. *Lecture or recitation daily, B; laboratory daily, C and 2:00-5:00, I, II (July 12 to August 6).* 4 s.h. (w) (*Laboratory fee, \$7.00.*) MR. SAYLOR AND MR. COOPER

**S151. Organic Chemistry.**—An introduction to the study of carbon compounds. Compounds of the aliphatic series form the basis of lectures, discussions, and laboratory experiments. Prerequisites: courses 61 and 70, except by permission of the instructor. *Recitation I, Lecture 2:00-3:00 daily except Saturday; laboratory 9:00-12:00 (June 13 to July 9).* 4 s.h. (w) (*Laboratory fee, \$7.00.*) MISS BROWN AND MR. PECK

**S152. Organic Chemistry.**—A study is made of compounds of the aromatic series, and of carbohydrates and proteins. Prerequisite: course S151. Lectures, recitations, and laboratory as in S151. *I, II (July 11 to August 6).* 4 s.h. (w) (*Laboratory fee, \$7.00.*) MISS BROWN AND MR. BRIGHT

**S275X. Thesis Research.**—Research in the fields of physical or organic chemistry. Open only to those students whose research programs for the A.M. or Ph.D. degrees have been approved by the department and by one of the instructors in charge of the course. *Schedule to be arranged (first eight weeks), I, II, 2 to 8 s.h. (Not more than one semester-hour of credit per week full-time schedule, or one semester-hour each two weeks for half-time schedule.)* MR. VOSBURGH AND MR. BIGELOW

(*In lieu of regular fees in this course, students enrolling for four semester-hours or less pay simple registration of \$17.50; all others pay special registration fee of \$25.00. Laboratory fees are arranged with the instructor according to materials used or destroyed.*)

**NOTE.**—S275X, as a course to give instruction in methods used in the investigation of original problems, is open to graduate students and even to undergraduate seniors who have had courses 70 and 151-152. Students other than thesis students, however, must not only have the approval of the instructor but also pay full registration, tuition, and laboratory fees.

## ECONOMICS

For admission to candidacy for the Master of Arts degree in Economics, the student must meet the general requirements for admission to the Graduate School and must have had twelve semester-hours in economics, including Principles of Economics. Twelve additional semester-hours must be offered in political science, sociology, or history.

Every candidate for a Master's degree must elect six semester-hours of graduate work in Economic Theory. The other twelve hours in economics should be elected as follows: six hours in the field in which he writes his Master's thesis and the three hours in each of the two other fields. For purposes of concentration, the fields in addition to Economic Theory shall be Finance, Economic History, History of Economic Thought, and Social Economics. The minor of six semester-hours must be taken in political science, sociology, or history, or in some other department approved by the major department.

**S51. Principles of Economics.**—A short course in the essential principles of economic science. Students who complete this course satisfactorily may be admitted to Economics 103 and 105 during the college year 1938-39. *B, I.* 3 s.h. MR. KEECH

**S52. Principles of Economics.**—A continuation of Economics S51, with emphasis on economic problems. (This course will not count as part of the minimum economics requirements for graduation until the equivalent of S51 has been completed. It will, however, count as elective credit.) *B, II. 3 s.h.*  
MR. LANDON

**S57-58. Principles of Accounting.**—Elementary principles of single proprietorship, partnership, and corporation accounting. *Period C will be used as a laboratory period. A, B, C, I. 6 s.h.*  
MR. BLACK

**S115. Economic Geography: Teachers' Course.**—A study of the interrelation of human activities and environmental elements. The discussion embraces location, maps and their interpretation, the major climatic regions, seasonal influences, weather, lands and their uses, soils and minerals, bodies of water, plants, animals, and the works of man, as environmental factors. *A, I.*  
MR. KEECH

NOTE.—Teachers especially desiring to take courses dealing with the conservation of national resources are advised to elect S115, or S116 below. Teachers with good background in geography should elect S116 if they can take only one of the two.

**S116. Economic Geography and Industrial Organization.**—A study of the economic resources and industries of the world: a general appraisal of the natural and the cultural environment; agricultural and manufacturing industries and their location; the conservation of natural resources; world aspects of resource ownership and utilization. *A, II. 3 s.h.*  
MR. LANDON

**S131. The Economic History of Modern Europe.**—A broad survey of the development of Europe as a whole since the age of discovery, with prime emphasis upon such economic institutions and forces as the Industrial Revolution. *B, I. 3 s.h.*  
MR. T. S. BERRY

**S132. The Economic History of the United States.**—A study of salient features in our national experience since colonial days, in such fields as currency and banking, prices, public finance, agriculture, manufacturing, and transportation. *C, I. 3 s.h.*  
MR. T. S. BERRY

**S171-S172. Advanced Accounting.**—Advanced accounting theory and practice applied to the managerial problems of valuation and operation in corporations, consolidations, mergers, and liquidations. Open to students who have completed Accounting 57-58. *Period C will be used as a laboratory period. A, B, C, I. 6 s.h.*  
MR. SHIELDS

**S231. The Economic History of Europe.**—A study of the economic development of Europe since the Middle Ages, treating such topics as guilds, mercantilism, finance, the commercial and industrial revolutions, and the rise of modern capitalism. *B, II. 3 s.h.*  
MR. R. S. SMITH

**S232. The Economic History of the United States.**—A study of agricultural, commercial, and financial progress from colonial times to the present, with special attention to the growth of population, business cycles, and the relationships between government and business. (Not open to students who have had or who are taking History 268.) *C, II. 3 s.h.*  
MR. R. S. SMITH

**S240. Economic History.**—This course is designed to introduce the student to the problems of factorial proportion and of price formation as they manifest themselves in competitive and in partly competitive economics. The student will be required to do comprehensive reading in the work of contemporary economists. (It is planned to follow this course in 1939 with a course dealing with problems of distribution, to which course the present course is prerequisite.) *A, I. 3 s.h.*  
MR. SPENGLER

See footnote, p. 30, as to limitation of class enrollments in graduate courses.



**S241. History of Economic Thought, 1800-1914.**—Special attention will be given to the various types of economic theory which developed in this period in England, France, Germany, and the United States. Extensive collateral reading in the works of representative authors is required. (This course alternates with a course in which the development of economic thought to 1800 is traced, to be given in 1939.) *B, I. 3 s.h.* MR. SPENGLER

**S253. Labor Problems.**—An examination of present-day labor problems, followed by an intensive study of methods used by employers and workers in meeting those problems. *B, I. 3 s.h.* MR. DE VYVER

**S257. Social Insurance.**—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pensions, and health insurance for workers. Particular attention will be given to the present federal and state social security legislation. *C, I. 3 s.h.* MR. DE VYVER

## EDUCATION

For admission to candidacy for the Master of Arts (A.M.) degree with major in Education, or for the Master of Education (M.Ed.) degree, students must, in addition to meeting the general requirements for admission to the Graduate School, meet the following specific requirements: 1. Eighteen semester-hours of acceptable prior work in Education; 2. Twelve semester-hours acceptable prior work in a minor field (Exception: if Psychology or Sociology is offered for the minor, six semester-hours of work completed after entering the junior year in college will be accepted). The required foreign languages for the A.M. degree shall be French and German unless students obtain special permission to substitute Latin or Greek for one of the two preferred.

Graduate courses in the Department are grouped under the following subdivisions: Public School Administration, Public School Supervision, Secondary Education, Elementary School Education, and Educational Psychology. Every candidate for the Master of Arts degree in the Department should elect at least twelve semester-hours in the one of these fields in which he intends to write his thesis and the remainder of his work, including the six semester-hours in his minor, with the approval of the proper division adviser. Dr. Proctor is adviser to students in School Administration, Dr. Proctor and Dr. Carr advise majors in Supervision, Dr. Carr is adviser in Elementary Education, Professor Childs advises in Secondary Education, and Dr. Brownell and Dr. Easley advise in Educational Psychology. Candidates for the M.Ed. degree under the new requirements should read with special care the regulations of the Graduate School as set forth on pages 20-22, this bulletin.

### PUBLIC SCHOOL ADMINISTRATION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Political Science, Economics, or Sociology. Candidates for the Master of Education under the new plan must take fifteen semester-hours of work from the courses specifically listed under this division.)

**S224. Current Problems in Public Education as Revealed through School Surveys.**—A study of recent developments in public education as revealed through school surveys and resulting from the survey movement. Section 1 recommended for high-school teachers, principals, and school administrators; Section 2 recommended for elementary school teachers, principals, and supervisors. *Section 1, B, I; Section 2, C, I. 3 s.h.* MR. GAMBLE

**S234. Secondary School Organization and Administration.**—A study of the outstanding problems of secondary school organization and administration other than the problems of gradation and classification of pupils. (For these two problems, see course S233 listed under Supervision.) For first-term students, Section 1 recommended for principals of high schools, and teachers of five or more years' experience; Section 2 recommended for teachers of less than five years' experience. *Section 1, A, I, II; Section 2, C, I, II. 3 s.h.*

MR. P. H. GWYNN (*first term*)

MR. BOYER (*second term*)

**S293. Problems of the Teaching Personnel.**—Possibilities for growth of teachers co-operating with administrative officers for (1) the better solution of classroom problems; (2) effective use of plant, records, health guidance agencies; and (3) building sound attitudes toward personnel management, tenure, supply and demand of teachers, placement, compensation, community co-operation, professional growth, and retirement. *B, II. 3 s.h.* MR. OVERN

**S323. Public School Finance.**—A study of educational costs, sources of revenue for the support of public education, collection of revenue, basis of distribution, and accounting for funds spent. *B, II. 3 s.h.* MR. HILL

**S333X. Thesis Seminar: Research in School Administration.**—For thesis students and others by permission. *Credit to be arranged. C, I, II.*

MR. PROCTOR

**S343. State and County School Administration.**—A study of the state and county organization of public schools, emphasizing underlying principles. (Enrollment in this course is limited to students who have already had at least six semester-hours in public school administration. Students who are expecting to write theses the summer of 1938 in the field of public school administration will be given preference in enrollment.) *A, I. 3 s.h.* MR. PROCTOR

**S363. City School Organization and Administration.**—Problems confronting the administrative officer in local schools, such as relations of superintendent with board and public, organization of schools, development of curricula, selection and promotion of teachers, etc. *A, II. 3 s.h.* MR. HILL

**S373. Business Problems of School Administration.**—Basic principles underlying the business administration of public schools; and the solution of practical problems, etc. *B, I. 3 s.h.* MR. OVERN

Other courses accepted, not to exceed a total of nine semester-hours, as work in School Administration are the following, when the student has the approval of his major professor: S209, S232, S233 or S233A, S273, S287, S288, S293, S305, listed under the division of Supervision; S208, S258, listed under Educational Psychology; S205, S206, S216, listed under Secondary Education; and S207, S212, S222, listed under Elementary Education.

#### PUBLIC SCHOOL SUPERVISION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Psychology or an approved combination with Educational Psychology, or in Sociology. Master of Education candidates are permitted as many as nine semester-hours of work in their minor, but take the remaining twelve or fifteen, if minor is only six hours, from courses specifically described or listed under Supervision.)

**S209. Statistical Methods in Education.**—A course intended to familiarize teacher, supervisor, and administrator with the statistical method of treating educational and social data, so as to enable them to interpret and use the results of recent investigation in the science of education. Presented primarily from the point of view of the classroom teacher. *C, I. 3 s.h.* MR. ODELL



**S222. The Curriculum and Materials of the Elementary Grades.**—A study of curriculum problems in the elementary schools. (Not open to students who had S242 in the summer of 1935 or 1936.) *Section 1, A, I; Section 2, B, I.* 3 s.h. MR. HILLMAN

**S224. Current Problems in Public Education as Revealed through School Surveys.**—Section 1 recommended for high-school teachers, principals, and school administrators; Section 2 recommended for elementary school teachers, principals, and supervisors. *Section 1, B, I; Section 2, C, I.* 3 s.h.

MR. GAMBLE

**S232. Elementary School Supervision.**—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. *A, II.* 3 s.h. MR. OVERN

**S233. Administrative Pupil Accounting.**—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and making of reports. The study includes a consideration of individual differences, promotion, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests; and some practice in the computation of statistical measures. (Not open for enrollment to students who have had course S233A.) *B, II.* 3 s.h. MR. PROCTOR

**S233A. Pupil Personnel Problems and Procedure.**—This course is intended to outline for administrators and teachers, the need for consideration of many adjustment problems of individual pupils, and to develop an acquaintance with the best provisions for meeting these needs. The course is directed toward the development of insights rather than techniques. (Not open for enrollment to students who have had course S233.) *C, I.* 3 s.h. MR. OVERN

**S273. Problems of High-School Supervision.**—A consideration of such problems as aims and purposes of high-school supervision, elements of an effective supervisory program, program of supervision for city and rural schools, the administration of supervision. Section 1 recommended for teachers of less than five years' experience; Section 2 recommended for principals and for teachers of five or more years' experience. *Section 1, A, I, II; Section 2, B, I.* 3 s.h.

MR. HIGHSMITH (*first term*)

MR. J. M. GWYNN (*second term*)

**S287. Problems of Mentally and Educationally Retarded Children.**—The causes, types, and degrees of mental retardation; psychological theories of mental deficiency; the education of slow learners in regular and special classes; the organization, objectives, curriculum, and teacher of the special class; the social and eugenical bearings of mental deficiency. The educational problems receive major consideration. *A, I; A, C, II (first three weeks).* 3 s.h.

MR. WALLIN

**S288. Problems of Mental Hygiene and Education.**—The problems, objectives, scope, factors, and techniques of mental hygiene, particularly with reference to its educational and social implications; the prevention of hampering personality difficulties and wholesome personality development; types of adjustment difficulties in different types of children, especially in the normal, and their preventive and remedial treatment; the mental hygiene of teaching and learning. *B, I.* 3 s.h.

MR. WALLIN

**S289. Character and Personality Testing.**—A study of the tests, scales, and other instruments available for the measurement of those phases of mental activity and development which intelligent tests do not attempt to measure. Prerequisite: course S258 or six semester-hours of other work in educational psychology. *B, II.* 3 s.h.

MR. ODELL

**S293. Problems of the Teaching Personnel.—*B, II.* 3 s.h.**

MR. OVERN

**S305. The Nature, Function, and Reorganization of the Curriculum.**—This is one of the reading courses required for the Master of Education degree of all students beginning work after June 1, 1938. Selected problems guiding the reading of students will be discussed in class, and reading students desiring to attend the class as auditors are welcome. Other students may take the course for three semester-hours credit, as any other graduate course listed. *A, I.* 3 s.h.

MR. CARR

Other courses accepted, not to exceed a total of six semester-hours, as work in School Supervision are the following, when the student has the approval of his major professor: S234, S343, S363, listed under the division of Administration; S300, S300X, S208, S218, S258, listed under Educational Psychology; S205, S206, S216, S226, S236, S246, S266, S276, listed under Secondary Education; and S207, S212, S237, S247, S257, listed under Elementary Education.

**EDUCATIONAL PSYCHOLOGY (GRADUATE COURSES)**

(The Master of Education degree is not offered in this division. Master's candidates should choose Psychology for their minor subject. It will be observed that certain of the courses listed under Educational Psychology are also listed under Supervision, Secondary Education, or Elementary Education.)

**S208. Mental Tests and Applications.**—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests, and training in the giving of individual tests. Prerequisite: course S258 or six semester-hours of other work in educational psychology or psychology. *A, I.* 3 s.h.

MR. ODELL

**S212. Psychology of the Elementary School Subjects.**—A study of the psychology of learning as applied to teaching the common-school subjects. *A, II.* 3 s.h.

**S216. Psychological Principles of Secondary Education.**—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. *B, I, II.* 3 s.h.

**S217. Advanced Educational Psychology.**—A systematic survey of the field of Educational Psychology. Required of all majors in Educational Psychology. Section 1 recommended for primary and grammar grade teachers; Section 2 recommended for grammar grade and secondary school teachers. *Section 1, B, I; Section 2, C, I.* 3 s.h.

MR. EASLEY

(Students expecting to enter candidacy for a Master's degree with major in Educational Psychology should enroll in this course their first summer.)

**S218. Educational Implications of Genetic Psychology.**—A course tracing the development of the individual through the stages of growth and learning with emphasis upon early and later childhood; the development of such behavior patterns as play, language, etc.; the process of socialization; and similar material of special significance to teachers in the elementary schools. An advanced section of S118, not open for enrollment to students who have credit for that course. Prerequisite: six semester-hours of psychology or educational psychology. *B, II.* 3 s.h.

MR. BROWNELL

**S237. Investigations in Reading.**—A summary of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing, diagnosis, and supervision; emphasis on problems requiring further investigation. *C, I.* 3 s.h.

MR. CARR

**S247A. Investigations in Arithmetic: Primary Section.**—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. *A, I, 3 s.h.*

MISS JOHN

**S247B. Investigations in Arithmetic: Grammar Grades Section.**—A special section of S247 intended for teachers in the grammar grades. *B, I, 3 s.h.*

MISS JOHN

**S257. Investigations in Language and Elementary School English.**—*C, I, 3 s.h.*

MR. JOHNSON

**S258. Educational Measurements.**—A study of the purposes and uses of standardized and informal tests and scales with special emphasis on their use in the improvement of instruction. *B, I, C, II, 3 s.h.*

MR. BROWNELL (*first term*)

MR. ODELL (*second term*)

**S287. Problems of Mentally and Educationally Retarded Children.**—*A, I; A, C, II (first three weeks), 3 s.h.*

MR. WALLIN

**S288. Problems of Mental Hygiene and Education.**—*B, I, 3 s.h.*

MR. WALLIN

**S289. Character and Personality Testing.**—*B, II, 3 s.h.*

MR. ODELL

**S300. Introduction to Educational Research.**—This is primarily a pre-thesis writing course which is designed to be liberalizing as well as technical. The general purpose is to give the student an overview of research, acquaint him with the nature of research processes, and develop within him an appreciation of the essential characteristics of good research work. Throughout the term direct training for thesis writing will be given; the course will not, however, duplicate the work of more intensive courses in special research technique, such as statistical methods. Recommended for students who intend to write theses in Education in 1939. This course is required of all candidates for the Master of Education degree who begin their work with the 1938 Summer School and will be included in their final examination on readings. *A, I, II, 3 s.h.*

MR. SCATES

**S300X. Educational Research.**—Thesis credit only. *B, I, II, 3 s.h.*

MR. SCATES

**S309. Research in Educational Psychology.**—Students writing theses in educational psychology should attach themselves to this seminar for supervision and residence credit, as well as students with research problems desiring course credit. *C, I, II, 3 s.h.*

MR. BROWNELL

## SECONDARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should elect minor work in their teaching subject, or in Psychology or Sociology. Master of Education candidates are required to elect their minor work in their teaching subject, and all of their work in Education must come from courses listed in this division.)

**S205. Curriculum Problems in Secondary Education.**—A consideration of practical problems of curriculum-making in the high school, in the light of the objectives of secondary education. *Section 1, A, I; Section 2, A, I; Section 3, A, C, II (first three weeks).*

MR. CHILDS AND MRS. HAWKES

**S206. Sociological Foundations of Secondary Education.**—A consideration of the aims and objectives of the secondary school and of the secondary school subjects, in the light of the school as a social institution. *Section 1, B, I; Section 2, C, I.* 3 s.h. MR. HOLLIS

**S216. Psychological Principles of Secondary Education.**—*B, I, II.*

**S226. Teaching of History and the Social Studies.**—A course for teachers of social studies in junior and senior high schools. Discussions and collateral readings upon such topics as aims, tests for values, the social-studies curriculum, classroom procedure, course and lesson planning, etc. *C, I.* 3 s.h.

MRS. HAWKES

**S234. Secondary School Organization and Administration.**—For the first term, Section 1 recommended for principals and for teachers of five years' experience; Section 2 recommended for teachers of less than five years' experience. *Section 1, A, I, II; Section 2, C, I.* 3 s.h.

MR. P. H. GWYNN (*first term*)

MR. BOYER (*second term*)

**S234X. Thesis Seminar in Secondary Education.**—*Schedule to be arranged, I, II (first three weeks).*

MR. CHILDS

**S236. Problems in the Teaching of English in the Secondary School.**—*A, I.* 3 s.h.

MR. JOHNSON

**S246. The Teaching of High-School Mathematics.**—Identical with Mathematics S204. *B, I.* 3 s.h.

MR. W. W. RANKIN

**S266. The Teaching of High-School French.**—Identical with French S218. *B, I.* 3 s.h.

MR. WEBB

**S276. The Teaching of High-School Science.**—Discussion, based upon lectures and collateral reading, of such topics as aims, tests for values, the curriculum, classroom procedure, course and lesson planning in secondary school science. Prerequisite: at least eighteen semester-hours of science in college. *C, II.* 3 s.h.

MR. SLAY

**S288. Problems of Mental Hygiene and Education.**—*B, I.* 3 s.h.

MR. WALLIN

Other courses accepted, not to exceed a total of six semester-hours, as work in Secondary Education are the following, when the student has the approval of his major professor: S233, or S233A, S287, S289, S209, S224, listed under the division of Supervision; and S208, S217, S218, S219, S258, listed under Educational Psychology.

#### ELEMENTARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should take their minor work of six semester-hours in Psychology, Educational Psychology, or an approved combination of the two, or in Child Welfare and Development—wholly in Sociology, or partly Sociology and Psychology, or Educational Psychology if a satisfactory combination can be worked out. Master of Education candidates in this division must take fifteen semester-hours of work described or listed under Elementary Education.)

**S207. Technique of Teaching.**—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. A course primarily for those interested in the supervision of elementary school instruction. *A, I.* 3 s.h.

**S212. Psychology of the Elementary School Subjects.**—*A, II.* 3 s.h.



**S218. Educational Implications of Genetic Psychology.**—*B, II.* 3 s.h.  
MR. BROWNELL

**S222. The Curriculum and Materials of the Elementary Grades.**—(Not open to students who had S242 in the summer of 1935 or 1936.) *Section 1, A, I; Section 2, B, I.* 3 s.h.  
MR. HILLMAN

**S232. Elementary School Supervision.**—*A, II.* 3 s.h. MR. OVERN

**S237. Investigations in Reading.**—*C, I.* 3 s.h. MR. CARR

**S247A. Investigations in Arithmetic: Primary Section.**—*A, I.* 3 s.h.  
MISS JOHN

**S247B. Investigations in Arithmetic: Grammar Grades Section.**—*B, I.* 3 s.h.  
MISS JOHN

**S257. Investigations in Language and Elementary School English.**—*C, I.* 3 s.h.  
MR. JOHNSON

**S258. Educational Measurements.**—*B, I, C, II.* 3 s.h.  
MR. BROWNELL (*first term*)  
MR. ODELL (*second term*)

**S287. Problems of Mentally and Educationally Retarded Children.**—*A, I; A, C, II (first three weeks).* 3 s.h.  
MR. WALLIN

**S288. Problems of Mental Hygiene and Education.**—*B, I.* 3 s.h.  
MR. WALLIN

**S322. Seminar in Elementary Education.**—Thesis students in elementary education should attach themselves to this course for supervision and residence credit. *A, C, II (first three weeks).* 3 s.h.  
MR. CARR

Other courses accepted, not to exceed a total of six semester-hours, as work in Elementary Education are the following, when the student has the approval of his major professor: S224, S233 or S233A, S287, listed under the division of Supervision; and S208, S217, S219, listed under Educational Psychology.

#### UNDERGRADUATE COURSES

(By permission Seniors may enter graduate courses numbered below 300. Attention is called to the fact that toward the A.B. degree not more than six semester-hours of methods courses are allowed to count.)

**S54. Introductory Course in the History of Education.**—A study of the types of educational systems and institutions evolved in Western Europe and the United States as an introduction to current educational problems. *C, I.* 3 s.h.  
MR. ESKRIDGE

**S58. The Learning Process.**—A course in elementary educational psychology. *A, I.* 3 s.h.  
MR. ESKRIDGE

**S68. Mental Hygiene of the School Child.**—A course primarily for teachers in the elementary school. A study of personality factors as related to the adjustment and success of the school child; the foundations of motivation; typical problems of maladjustment; social heredity and its educational implications; variations in intelligence. (Not offered second term unless as many as ten students enroll.) *B, I, II.* 3 s.h.

MR. GODARD (*first term*)  
MR. MCEWEN (*second term*)

**S83. Current Trends in American Public-School Organization.**—A study of current controversies and criticism bearing on the organization and administration of the public schools, recent developments in the organization of schools and the theories underlying these developments. (Not offered second term unless as many as ten students enroll.) *B, I, II. 3 s.h.*

MR. CURTIS (*first term*)

MR. BARDEN (*second term*)

**S101. Introduction to Teaching.**—A survey of the work of the teacher, intended to assist the pupil in choosing intelligently some field of teaching work for future specialization. Topics: qualification and training of teachers, nature and aims of education, nature and purpose of public school curricula, nature of subject matter and its relation to pupil activity, modern procedure in teaching. Old number, S61. *A, I. 3 s.h.*

MR. HARRIS

**S103. School Organization and Administration for the Classroom Teacher.**—A study of the problems of school organization, control, and administration as they arise in the work of the classroom teacher. (Not offered second term unless as many as ten students enroll.) *C, I, II. 3 s.h.*

MR. HARRIS (*first term*)

MR. BARDEN (*second term*)

**S104. History of Education in the United States.**—A study of the development of the American public school and the interaction of higher education and the public school. (Not offered unless as many as ten students enroll.) *A, II. 3 s.h.*

MR. AGNEW

**S105. Introductory Course in Educational Sociology.**—A study of social forces, processes, and values as effecting education, and the interaction of school and community. (Not offered unless as many as ten students enroll.) *C, II. 3 s.h.*

MR. AGNEW

**S111. Primary Methods in Language and Reading.**—A study of materials and methods in the mother tongue. *1, I. 2 s.h.*

MISS MICHAELS

**S117. Analysis of Study and Study Habits in the Elementary Subjects.**—A special section of course S119 planned to meet the needs of teachers and supervisors in the elementary schools. *C, I. 3 s.h.*

MR. CURTIS

**S118. Educational Implications of Genetic Psychology.**—A course tracing the development of the individual through the stages of growth and learning, with emphasis upon early and later childhood; the development of such behavior patterns as play, language, etc.; the process of the socialization; and similar material of special significance to teachers in the elementary schools. *A, I, II. 3 s.h.*

MR. WATSON

**S122. The Teaching of Arithmetic in the Primary Grades.**—A special section of S127 for primary teachers. *2, I. 2 s.h.*

MISS DEANS

**S127. The Teaching of Arithmetic in the Grammar Grades.**—A course designed to acquaint the teacher with the best methods of teaching arithmetic which have evolved from more than a decade of research and experimentation; emphasis upon the actual process under normal classroom conditions, with special attention to problem solving; brief survey of the work of the primary grades is also given. *3, I. 3 s.h.*

MISS DEANS

**S136. The Teaching of High-School English.**—Identical with English S142. *C, I. 3 s.h.*

MR. A. C. JORDAN

**S142. Children's Literature: Primary Section.**—A critical study of literature for primary grades; types of literature; story telling, principles underlying and practice; study of State Course of Study and adopted texts; bibliographies and use of the library. *3, I. 2 s.h.*

MISS MICHAELS



**S147. Children's Literature: Grammar Grade Section.**—A critical study of literature for grammar grades; similar to S142 above. *2, I. 2 s.h.*

MISS MICHAELS

**S158. Educational Measurements.**—A special section of S258 for undergraduate students and teachers in service. (Not offered unless as many as ten students enroll.) *A, II. 3 s.h.*

MR. McEWEN

**S161. Social Studies in the Grammar Grade.**—Identical with S162 below, except that illustrative materials are chosen with the child of grades four to seven in mind. *A, I. 3 s.h.*

MRS. PORTER

**S162. Social Studies in the Primary Grades.**—A study of programs, principles, and procedures in the social studies in the primary grades, with more detailed methods of planning, selecting materials, and teaching specific units. *B, I. 3 s.h.*

MRS. PORTER

**S167. Materials and Methods in the Teaching of Science in the Elementary Schools.**—Identical with S276, except that illustrative materials are chosen with the child of grades four to seven in mind. *A, II. 3 s.h.*

MR. SLAY

**S182. The Teaching of Geography.**—Emphasis upon developing methods of reasoning with geographical materials. Diagnosis of specific difficulties in teaching geography and suggestions for remedial teaching. Recommended for teachers of two or more years' experience or persons who have had college courses in geography. (See Economics S115, S116.) *C, I. 3 s.h.*

MR. GODARD

**S192. Materials and Methods in the Primary Grades.**—A study of curriculum problems in grades one to three; the theories underlying the organization of the integrated curriculum; the principles underlying large-unit teaching; the environment as a source of materials for developing the curriculum; centers of interest around which units of work may develop; criteria for selection; selection and organization of materials; the organization of the curriculum around large units; checking the results against objectives and subject-matter requirements; technique of teaching large units, including the place of drill, the program of work, provision for individual differences, and the relationship of the various subjects to the units of work. An actual unit of work will be developed in detail for each grade level. *B, I, II. 3 s.h.*

MISS BASON (*first term*)

MISS MARKS (*second term*)

**S197. Materials and Methods in the Grammar Grades.**—Identical with S192 above, except that illustrative materials are chosen with the child of grades four to seven in mind. *A, I, II. 3 s.h.*

MISS BASON (*first term*)

MISS MARKS (*second term*)

#### PUBLIC SCHOOL ART AND MUSIC

**A. Integrated Art in the Public School.**—This course is offered to develop certain skills fundamental in the teaching of public school art as well as skills that will prove of help in teaching other subjects of the elementary school curriculum. Topics: color theory, design, perspective, representation, figure drawing, illustration, picture study, etc. Emphasis varies with the needs of the class. Media: tempera color, crayons, clay, etc. *A, and 10:40-12:55, I (second three weeks); II (last three weeks). 3 points professional credit only.*

MRS. ALSTON (*first term*)

MRS. MASON (*second term*)

**B. Industrial Art in the Public School.**—Manipulation and work with clay, textiles, wood, paper, food, printing, etc., intended to give the child an acquaintance with the raw products of nature, and the changes made in them so that they may be more usable for food, clothing, shelter, utensils, tools, etc. Each student taking the course must complete a project upon the work of the grade in which she expects to teach. *A, 10:40-12:55, 11 (first three weeks). 3 points professional credit only.* MRS. ALSTON

**C. Public School Music.**—A course in the fundamentals necessary for grade teaching. Such topics as sight singing, ear training, music appreciation, rote songs, child voice, etc., will be discussed. This is an elementary course intended primarily for grade teachers. *A, methods and theory; 2 rote singing and rhythm; C, sight singing and ear training; 1 (first three weeks). 3 points professional credit only.* MRS. TWADDELL

#### HYGIENE AND HEALTH EDUCATION

**S112. Personal and School Hygiene.**—General, personal, and school hygiene with some instruction in anatomy and physiology; cause, transmission, and prevention of communicable diseases; the more common defects of school children; schoolhouse sanitation; medical inspection; etc. *A, C, 1 (first three weeks). 3 s.h.* MISS GARDINER

**S132A. Materials and Methods in Health Education: Primary Grades.**—*C, 1. 3 s.h.* MR. AYCOCK

**S132B. Materials and Methods in Health Education: Grammar Grades.**—A special section of S132 for teachers in the grammar grades. *B, 1. 3 s.h.* MR. AYCOCK

NOTE. Both sections of S132 work out programs of physical and health education in the grades.

#### ENGINEERING

**C.E. S10. Plane Surveying.**—Use of instruments; transit, stadia, compass, and plane-table surveying; simple triangulation; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, and departures; areas by planimeter; methods of plotting; survey and plot of sections of the campus by stadia, and transit and tape. *Three weeks, nine hours a day, beginning June 2. 3 s.h.*

MR. BIRD, MR. W. H. HALL, AND MR. WILLIAMS

**C.E. S110. Plane Surveying.**—A special section of C.E. S10 intended for students in Forestry and others of advanced standing. *Three weeks, nine hours a day, beginning June 2. 3 s.h.* MR. BIRD

#### ENGLISH

Those who wish to become candidates for the Master's degree in English are expected to have at least twelve semester-hours in courses above Sophomore requirements. The Department reserves the right to require additional course work on the graduate level if the work of the student in his first term indicates inadequate preparation. For admission to candidacy with a major in American Literature the student must present courses S137-S138 or an acceptable equivalent in American Literature either as part of the twelve stipulated above or in addition to them.

Master's candidates in English are required to complete at least three semester-hours in Chaucer or certain other designated courses. Master's candidates who have completed as many as twelve semester-hours of graduate work should also take the bibliography course, S301, at their earliest opportunity.

**S1. English Composition.**—A course in the fundamentals of English composition, oral and written, with special attention to sentence structure, syntax, common errors, etc. Frequent themes. *A, II. 3 s.h.* MR. FITZGERALD

**S2. English Composition.**—A continuation of course S1. *C, II. 3 s.h.* MR. FITZGERALD

**S53. English Composition.**—By means of instruction, frequent conferences, and extensive writing of assignments, this course undertakes to make the student familiar with the qualities of the best prose style. (Open only to those who have credit for S1.) *B, I. 3 s.h.* MR. A. C. JORDAN

**S59. Contemporary British and American Drama.**—*A, I. 3 s.h.* MRS. WHITE

**S60. Contemporary British and American Fiction.**—*B, I. 3 s.h.* MRS. WHITE

**S64. A Survey of English Poetry, 1744-1900.**—*C, II. 3 s.h.* MR. SUGDEN

**S107. Journalism.**—News writing and copy reading. *A, II. 3 s.h.* MR. SUGDEN

**S117. Acting.**—*Lectures 1, rehearsal 2:30-4:00, I. 3 s.h.* MR. WEST

**S119. History of the Theater.**—This course makes a study of the development of the theater, methods of production, and representative plays; classic, oriental, medieval. *B, I. 3 s.h.* MR. WEST

**S120. History of the Theater.**—History of the theater from the time of the Italian Renaissance to the present day. *B and 2:30-4:00, II (first three weeks). 3 s.h.* MR. WEST

**S123. Shakespeare.**—The histories and comedies. (This course duplicates S124 as offered in the summer of 1937 and preceding summers.) *C, I. 3 s.h.* MR. MITCHELL

**S124. Shakespeare.**—Introduction and detailed study of the tragedies. (This course duplicates S123 as offered in the summer of 1937 and preceding summers.) *B, I. 3 s.h.* MR. MITCHELL

**S125. Early Nineteenth-Century Literature.**—This course consists of representative English writers in the period 1798-1832, with emphasis upon Coleridge, Wordsworth, Hazlitt, and Scott. *B, I. 3 s.h.* MR. PATTON

**S126. Early Nineteenth-Century Literature.**—Continuation of course S125, emphasizing Byron, Shelley, and Keats. Open to enrollment to students who have had or are taking S125. *C, I. 3 s.h.* MR. PATTON

**S137. American Literature prior to 1850.**—This course consists of wide reading in American prose and poetry produced prior to 1850. *B, I. 3 s.h.* MR. JARRELL

**S138. American Literature, 1850-1900.**—Continuation of course S137. *C, I. 3 s.h.* MR. MIMS

**S142. The Teaching of High-School English.**—Materials and methods in high-school English. *C, I. 3 s.h.* MR. A. C. JORDAN

**S145. English Literature, 1832-1900.**—A study of representative English poets of the period, with special emphasis on Tennyson and Arnold. *A, II. 3 s.h.* MR. SANDERS

**S146. English Literature, 1832-1900.**—A study of representative English poets of the period, with special emphasis on Browning and Morris. *C, II.* 3 s.h. MR. SANDERS

**S147. American Literature since 1900.**—*C, I.* 3 s.h. MR. JARRELL

**S211A. Seventeenth-Century Prose.**—Studies in the development of modern prose. The course excludes the work of Milton (see course S268). *A, II.* 3 s.h. MR. PARKER

**S212A. Seventeenth-Century Non-Dramatic Poetry.**—Studies in the later poetry of the English Renaissance, 1603-1660, exclusive of Milton, with emphasis on Donne and the metaphysical school. *B, I.* 3 s.h. MR. PARKER

**S215. Elizabethan Drama.**—A study of the contemporaries of Shakespeare. This course does not duplicate course S216 offered in 1933. 2:30 P.M., *I.* 3 s.h. MR. GILBERT

**S216. The English Drama in the Reign of James I.**—A study of the later contemporaries and immediate successors of Shakespeare, with emphasis upon the plays of Beaumont and Fletcher. *A, II.* 3 s.h. MR. B. MAXWELL

**S218. Milton: Paradise Lost, Paradise Regained, and Samson Agonistes.**—Problems in their interpretation. *B, II.* 3 s.h. MR. PARKER

**S219. The Age of Pope.**—*A, I.* 3 s.h. MR. IRVING

**S220. Studies in English Literature, 1750-1800.**—It will deal with the chief literary figures and currents of thought in the period. Lectures, extensive reading, reports, discussion. *B, II.* 3 s.h. MR. ALLEN

**S221. English Drama, 1660-1780.**—A study of the principal plays between Dryden and Sheridan. Lectures and reports. *B, I.* 3 s.h. MR. WARD

**S223. Survey in Early Nineteenth-Century Literature.**—*C, I.* 3 s.h. MR. SOLVE

**S228. Literary Criticism.**—A history of literary criticism after 1700. 2:30 p.m., *II.* 3 s.h. MR. GILBERT

**S233. Studies in American Poetry since 1870.**—Emphasis upon Walt Whitman, Emily Dickinson, William Vaughn Moody, Edwin Arlington Robinson, Robert Frost, Carl Sandburg, Vachel Lindsay, Edna Millay, George Sterling, Edgar Lee Masters, Elinor Wylie, Stephen Vincent Benét, and John Crowe Ransom. The development of poetic technique, with a discussion of such modern developments as free verse, imagism, and impressionism. *B, I.* 3 s.h. MR. MIMS

**S235A. Studies in Dryden.**—*A, I.* 3 s.h. MR. WARD

**S236. Queen Anne Prose.**—Special emphasis will be laid on Addison and Steele, Defoe, and Swift. Lectures, extensive reading, reports, and discussion. *C, II.* 3 s.h. MR. ALLEN

**S238. Shakespeare's Later Plays.**—(This course does not duplicate course S238 as offered in the summers of 1933 and 1936.) *C, II.* 3 s.h. MR. B. MAXWELL

**S261. Southern Critical Thought.**—Readings, lectures, and reports. *A, II.* 3 s.h. MR. PARKS

**S268. Milton.**—The minor poems and the principal pamphlets; problems in their interpretation. *C, I.* 3 s.h. MR. PARKER



**S301. Bibliography and Methods of Research.**—This course or its equivalent is required of all candidates for higher degrees. *Section 1, A, Section 2, B, I.* 3 s.h. MR. JENKINS

**S308X. Thesis Seminar in American Literature.**—Limited to students who have already registered for thesis residence in American literature. *I (first three weeks).* 3 s.h. MR. HUBBELL

**S314X. Thesis Seminar: Byron and Shelley.**—Open only, with consent of the instructor, to those who have theses in process or have completed the course requirements for a Master's degree in English literature. *A, I.* 3 s.h. MR. WHITE

**S323. Studies in Coleridge.**—Coleridge's contribution to romantic thought. An attempt will be made to study the major influences upon Coleridge's thought. Each student will be expected to give at least one oral report and to prepare a written paper. *B, I.* 3 s.h. MR. GRIGGS

**S324. Studies in Shelley.**—(Not open for enrollment to students who had S240 in 1936. This course does not duplicate S324 offered in the summer of 1932.) *B, I.* 3 s.h. MR. SOLVE

**S325. The Regency and Early Victorian Period.**—A study of the major writers, in the light of the intellectual milieu. The effect of the clash between religion and science, the social problems arising out of the Industrial Revolution, and the philosophical ideas will be studied. Special attention will be given to Cobbett, Carlyle, Mill, Newman, Huxley, and Tennyson. *C, I.* 3 s.h. MR. GRIGGS

**S327. Seminar in Southern Literary Criticism.**—Enrollment limited to twelve students. *B, II.* 3 s.h. MR. PARKS

**S329. Seminar in Sixteenth- and Seventeenth-Century English Literature.**—Open by permission of the instructor to students who have had at least one course in the drama or other literature of the period. The Restoration will not be dealt with. Students writing theses on subjects from these centuries should attach themselves to this course. *Schedule to be arranged, I, II.* 3 s.h. MR. GILBERT

**S331. Seminar in the Age of Pope.**—*B, I.* 3 s.h. MR. IRVING

## FORESTRY

Candidates for the Bachelor of Science degree with a major in Forestry are required to take Civil Engineering S110 (Plane Surveying) in Summer School at the close of their Junior year. This course is listed under Engineering, page 42, this bulletin. Candidates in Forestry are also expected to take the following courses after completing the required work in Engineering:

**S150. Forest Surveying.**—The application of plane surveying to forest problems. Practice in making boundary and topographic surveys of forested tracts, using both intensive and extensive methods. Work includes use of the transit, level, traverse board, topographic abney and slope tape, and aneroid barometer. Prerequisites: Civil Engineering 110, Plane Surveying, or equivalent. *Five weeks, eight hours a day, beginning June 25.* 5 s.h.

MR. MAUGHAN

**S151. Forest Mensuration.**—Field studies in the methods of measuring the contents and growth of trees and forest stands. Practice in timber estimating, log scaling, use of mensurational instruments, and the collection of basic data. *Four weeks, eight hours a day, beginning August 1.* 4 s.h.

MR. SCHUMACHER

## FRENCH

**S1. Elementary French.**—Grammar; translation from French into English and English into French; pronunciation, sight translation, and conversation. *A, C, I (first three weeks).* 3 s.h. MR. DOW

**S2. Elementary French.**—Continuation of course S1. *A, C, I (second three weeks).* 3 s.h. MISS RAYMOND

**S3. French Prose.**—Reading and translation, exercises in grammar review and verb drill. Prerequisite: French S1-S2 or two years of high-school French. *A, I.* 3 s.h. MR. DAVIS

**S4. French Prose.**—Reading and translation, writing in French at dictation, and aural drill. Prerequisite: French S3. *B, I.* 3 s.h. MR. DAVIS

**S51. Introduction to French Literature.**—Prerequisite: French S3-S4 or equivalent. *A, II.* 3 s.h. MR. BRIDGERS

**S52. Introduction to French Literature.**—Prerequisite: French S51. *C, II.* 3 s.h. MR. BRIDGERS

**S211. Nineteenth-Century French Drama.**—Drama from the Romantic period to the close of the century. (Not open to students who had course S214 in the summer of 1934.) *B, II.* 3 s.h. MR. COWPER

**S219. Materials and Methods.**—History of the teaching of French; methods; the course of study; analysis of representative texts; objectives in the light of teaching conditions, equipment, and future application. *B, I.* 3 s.h. MR. WEBB

**S226. The French Short Story of the Nineteenth Century.**—A study of the story as a literary form, along with consideration of the problem of editing stories for school use. *2:30 P.M., I.* 3 s.h. MR. B. R. JORDAN

**S229. Survey of Eighteenth-Century Literature.**—*C, II.* 3 s.h. MR. COWPER

**S233. Main Currents of Modern French Literature.**—A survey of the principal literary tendencies from the seventeenth to the nineteenth centuries. Selected illustrative readings from leading authors. Required of all candidates for the Master's degree in French, unless a similar graduate course has been taken previously. *A, I.* 3 s.h. MR. WALTON

**S240. Survey of French Civilization.**—The physical and human geography of France; French society and institutions, with special emphasis on the Old Regime and the nineteenth century. *C, I.* 3 s.h. MR. WEBB

**S340X. Seminar in Nineteenth-Century French Literature.**—Thesis credit only. *Schedule to be arranged, I.* 3 s.h. MR. B. R. JORDAN

## GEOGRAPHY

See courses listed under Economics.

## GEOLOGY

**S175. Summer Field Course in Geology.**—Prerequisite: Geology 51-52 or its equivalent, and the permission of the instructor. *Four weeks, I.* 4 s.h. MR. W. BERRY

This course is offered tentatively, provided as many as eleven men are accepted by the instructor and make a deposit of \$150.00 before May 1. Application should be made to Dr. W. Berry, 309 Physics Building, Duke Uni-



versity. If more than eleven students are accepted, all over the limit will be placed on the waiting list, with the understanding that for those on the waiting list deposit will be refunded if none of the first eleven accepted withdraw. It is planned for the group to leave Durham by auto caravan about June 10 and visit many points of geologic interest between Durham and the Grand Canyon, Yellowstone Park, and back to Durham; mines, quarries, oil fields, fossil localities, and the like, will be visited and discussed. A written report will be required before credit is given. Students accepted for the trip must have had smallpox vaccination and typhoid and para-typhoid injections, and be in good health. The University cannot accept responsibility for sickness or accidents, although precaution will be taken for the common good. Tents and cots will be provided, but eating will be in restaurants. The expense of the trip will be covered by the deposit of \$150.00, which allows \$1.00 per day for food. The student is privileged to spend as much more a day as he wishes.

### GERMAN

**S1. Elementary German.**—The fundamentals of grammar and pronunciation; vocabulary drill, translation, and dictation. Emphasis upon a sound reading knowledge of the language and individual achievement. *A, C, I (first three weeks).* 3 s.h.  
MR. W. C. MAXWELL

**S2. Elementary German.**—The equivalent of the second college semester of German; intensive and extensive reading of graded material; grammar and vocabulary drill; dictation and sight translation. *A, C, I (second three weeks).* 3 s.h.  
MR. W. C. MAXWELL

**S3. Intermediate German.**—Grammar and composition; dictation, spoken German; reading of narrative and dramatic prose. *A, II.* 3 s.h.  
MR. F. E. WILSON

**S4. Intermediate German.**—Grammar and composition; dictation, spoken German; reading of narrative and dramatic prose. *C, II.* 3 s.h.  
MR. F. E. WILSON

**S115. German Drama of the First Half of the Nineteenth Century.**—A study of leading dramatists, beginning with Heinrich von Kleist. *A, I.* 3 s.h.  
MR. KRUMMEL

**S116. German Drama of the Second Half of the Nineteenth Century.**—A study of leading dramatists, closing with Gerhart Hauptmann. *B, I.* 3 s.h.  
MR. KRUMMEL

### GOVERNMENT

See courses listed under Political Science.

### HISTORY

For admission to candidacy for a Master's degree in History the student must present a total of eighteen semester-hours of prior work in History, of which at least six must be in American History if he plans to take his major work in that field. Before enrolling for thesis supervision, candidates for the Master's degree are required to complete at least three semester-hours of seminar work. (See courses numbered 300 or above.)

**S51. Modern and Contemporaneous Europe.**—A careful survey is made of European history from 1500-1814, with especial attention given to political developments. Passing attention is given to religious, economic, social, and cultural movements. *B, I.* 3 s.h.  
MR. McCLOY

**S52. Modern and Contemporaneous Europe.**—A survey of European history since 1814. *C, I.* 3 s.h.  
MR. McCLOY

**S91. Political and Social History of the United States to 1830.**—A general survey of the development of the United States in which effort is made to place the proper emphasis on underlying economic or other causes of political and social progress. *A, I, II. 3 s.h.*

MR. MABRY (*first term*)  
MR. FLANDERS (*second term*)

**S92. Political and Social History of the United States, 1830-1900.**—*C, I, II. 3 s.h.*

MR. MABRY (*first term*)  
MR. FLANDERS (*second term*)

**S101. Development of Western European Civilization to about 800 A.D.**—A study of the development in Western Europe of the familiar institutions and culture of modern society, as developed from ancient times down to the period of Charlemagne. *B, II. 3 s.h.*

MR. MANCHESTER

**S102. Development of Western European Civilization from 800 to 1563 A.D.**—Continuation of course S101 through the Renaissance, Reformation, and Catholic Counter-Reformation. Students may enter this course concurrently with S101. *C, II. 3 s.h.*

MR. MANCHESTER

**S203. The Union, Confederacy, and Reconstruction.**—The subjects considered are the rise of secession, the constitutional and economic problems of the Union and Confederacy, and the political and economic adjustments during Reconstruction. *A, I; B, II. 3 s.h.*

MR. RAMSDALL (*first term*)  
MR. WOODY (*second term*)

**S208B. Studies in Social History of the United States since 1860.**—*C, I. 3 s.h.*

MR. SHRYOCK

**S210. Political and Constitutional History of the United States, 1820-1850.**—A study of the men and measures that shaped American political thought and action of this period, with some attention to the development of processes for fashioning public opinion. Much use will be made of biography. *A, II. 3 s.h.*

MR. C. H. SMITH

**S213. Recent History of the United States.**—This course emphasizes the period since the Spanish-American War. *Section 1, A; Section 2, C, I. 3 s.h.*

MR. COULTER

**S217. Europe, 1870-1914.**—International relations since the Franco-German War; special emphasis upon the underlying economic and political influences, with emphasis upon England. *B, II. 3 s.h.*

MR. HALE

**S220. History of the Working Classes in Europe since the Industrial Revolution.**—This course treats of such movements as trade unionism, consumers and producers co-operatives, and the social revolutionary philosophies in theory and practice. *A, I. 3 s.h.*

MR. CARROLL

**S224. Medieval Institutions and Culture.**—The ecclesiastical, feudal, monarchical, and communal institutions, relations of Church and State, the rise of universities, vernacular literature, philosophy, and art of the period 800-1400 A.D. *A, I. 3 s.h.*

MRS. QUINN

**S233. The Cultural and Institutional History of Colonial Hispanic America.**—A study of race problems, transplantation of European civilization, government and defense, church and missions, land and labor and general culture. Not open for enrollment to students who have had S231 in preceding terms of Summer School. *B, I. 3 s.h.*

MR. LANNING

**S237. Social and Intellectual Development of the Old South.**—Consideration will be given to conditions in the South in respect to slavery, agriculture, manufacturing, transportation, education, religion, science, and literature. *A, I. 3 s.h.* Mr. SYDNOR

**S250. The American Colonies, 1689-1783.**—A study of the political, social, economic, and cultural history of the colonies from 1689 through the American Revolution. Lectures, readings, reports. *C, I. 3 s.h.* Mr. LEFLER

**S268. Recent Economic History of the United States, 1860-1925.**—A particular effort will be made to show the effects upon American life of the great economic revolution which has occurred since the Civil War. Lectures, readings, reports. *B, I. 3 s.h.* Mr. LEFLER

**S305. Seminar in the History of England and the British Empire.**—The work consists of practical training in the methods of historical research based on source for modern British history. (Students enrolling in this course must also enroll in S325.) *B, I. 3 s.h.* Mr. LAPRADE

**S306X. Thesis Seminar in Southern History.**—Open only to students who have theses in process or have completed the required courses in American History for the Master's degree. *Residence credit only, I.* Mr. SYDNOR

**S308B. Seminar: Social History of the United States since 1860.**—(Open to students taking S208B or equivalent.) *B, I. 3 s.h.* Mr. SHRYOCK

**S315. Seminar in Southern History.**—Selected topics in the development of the South Atlantic region, chosen from year to year, in different periods in its development. *B, I; C, II. 3 s.h.* Mr. RAMSDALL (*first term*)  
Mr. WOODY (*second term*)

**S317. Seminar in Modern European History.**—Directed research in problems relating to the history of Europe in the nineteenth century. *B, I; C, II. 3 s.h.* Mr. CARROLL (*first term*)  
Mr. HALE (*second term*)

**S324. Seminar: Medieval Institutions and Culture (1100-1400).**—Special attention will be given to educational institutions. Enrollment limited to those who have done previous work in medieval history. *C, I. 3 s.h.* Mrs. QUINN

**S325. British Nationality and Public Opinion.**—A study of the various political and social groups that have contended for power in England since the sixteenth century and the methods they used. (Students enrolling in this course must also enroll in S305.) *C, I. 3 s.h.* Mr. LAPRADE

**S330. Seminar in Jacksonian Democracy, 1824-1837.**—Directed investigation of questions relating to the course theme, with class reports. (Students enrolling in this course should have credit for or be enrolled in S210.) *B, II. 3 s.h.* Mr. C. H. SMITH

**S333. Studies in Hispanic-American History and Related Fields.**—Registration is confined to those who have had History 231 or 232 and those taking 233. Enrollment is limited to twelve students. Students writing theses under Mr. Lanning's direction will attach themselves to this course. *C, I. 3 s.h.* Mr. LANNING

## MATHEMATICS

To become a candidate for the degree of Master of Arts with major in Mathematics, a student must, besides meeting the University requirements for admission to the Graduate School, have completed a minimum of twenty-four semester-hours of course work in Mathematics or related fields. This course work must be approved by the Department through the Director of Graduate

Studies, Dr. J. M. Thomas. It must include differential and integral calculus and an additional six semester-hours of work in mathematical courses of at least Junior level.

To obtain the degree, a candidate must, besides meeting the University requirements relative to language, credits, thesis, and residence, specialize in one of the following divisions of Mathematics: algebra, analysis, geometry, or applied mathematics. In his division of specialization he must write his thesis and complete at least twelve semester-hours of course work. To assist students in meeting the thesis requirement, the Department offers each year a thesis seminar (course S390X) in which supervision of thesis writing is available in one or more of the divisions. The scope of the seminar is announced each year in this bulletin. Each candidate should, as early as possible in his graduate work, discuss his program with Dr. Thomas or his representative.

**S100. Integral Calculus.**—Indefinite integrals; definite integrals; applications to areas, volumes, centroids, etc.; partial differentiations; multiple integrals. Prerequisite: differential calculus. *C, I.* 3 s.h.

MR. W. W. RANKIN

**S204. Teaching of Mathematics.**—Fundamental processes, method of study, mathematical literature, content of courses, applications, correlation of different branches. Must be preceded or accompanied by integral calculus. *B, I.* 3 s.h.

MR. W. W. RANKIN

**S228. Number Theory.**—Euclid's algorithm, congruences, arithmetic functions, quadratic reciprocity. Prerequisite: integral calculus. *A, II.* 3 s.h.

MR. CARLITZ

**S231. Differential Equations.**—Solution of elementary types; formation and integration of equations arising in applications. Prerequisite: integral calculus. *B, I.* 3 s.h.

MR. ELLIOTT

**S235. Modern Algebra.**—Groups, rings, fields, polynomials in several indeterminates, reducibility. Prerequisite: differential calculus. *B, I.* 3 s.h.

MR. THOMAS

**S236. Modern Algebra.**—Matrices, quadratic and bilinear forms, pairs of quadratic forms. Prerequisite: differential calculus. *B, II.* 3 s.h.

MR. THOMAS

**S251. Infinite Series.**—Convergence, algebraic and functional properties, special types, summability; infinite products. Prerequisite: integral calculus. *A, I.* 3 s.h.

MR. ELLIOTT

**S259. Solid Analytic Geometry.**—Cartesian and tetrahedral coordinates, configurations of planes and straight lines, quadric surfaces, algebraic curves. Prerequisite: differential calculus. *C, II.* 3 s.h.

MR. THOMAS

**S281. Elementary Potential Theory.**—Newtonian potentials, vector fields, spherical harmonics, Dirichlet problem. Prerequisite: integral calculus. *C, I.* 3 s.h.

MR. GERGEN

**S331. Complex Variable.**—Elementary functions, infinite series, conformal mapping, line integrals, Cauchy's theorem and its applications. Prerequisite: courses S239, S240 (advanced calculus) or the equivalent. *B, I.* 3 s.h.

MR. GERGEN

**S332. Complex Variable.**—Calculus of residues, infinite products, partial fractions, special transcendental functions. Prerequisite: S331 or the equivalent. *B, II.* 3 s.h.

MR. CARLITZ



**S390X. Thesis Seminar.**—Supervision of individual theses in algebra, analysis, geometry, and applied mathematics with subjects based respectively on courses S235-S236 (modern algebra), S231 (differential equations), S255-S256 (projective geometry), and S284 (vector analysis). Students should consult the instructor before registering. *Thesis credit only. Schedule to be arranged, I. 3 s.h.* MR. THOMAS

### PHYSICS

**S1-2. General Physics.**—This course traces historically and experimentally the development of great principles. It stresses neither mathematical processes nor exact measurements. Three-hour recitation and two-hour laboratory. *Lectures, 1 and 3; recitation, 2; laboratory 2:30 to 4:30, daily, I (June 10 to July 28). 8 s.h. (w) (Laboratory fee, \$4.00.)*

MR. CARPENTER, MR. HOPKINS, AND MR. RYERSON

**NOTE.**—This course begins classwork three days before other classes. Students should, therefore, be careful to enter promptly. The second part, Physics S2, begins July 5.

**S203. Analytical Mechanics.**—Geometry of motion; kinematics of a particle and a rigid body; statics; relative motion; general principles of mechanics. *A, C, I (first three weeks). 3 s.h.* MR. MOUZON

**S204. Analytical Mechanics.**—A continuation of Physics S203. *A, C, I (second three weeks). 3 s.h.* MR. MOUZON

**S353X. Thesis Seminar.**—Students who are properly qualified may carry on research work under the direction of members of the Staff. *Schedule to be arranged, I. 2 to 6 s.h.* MR. CONSTANT, MR. MOUZON, AND MR. NIELSEN

### POLITICAL SCIENCE

**S21. Principles of Government.**—An introductory study of the principles and problems of government in general. *A, I. 3 s.h.* MR. GIBSON

**S22. Governmental Problems in International Relations.**—An introductory study of current problems of international co-operation in relation to national policies of major powers. *B, I. 3 s.h.* MR. GIBSON

**S61. American Government and Politics.**—A study of the American political system, including the organization and functioning of national, state, and local government in the United States. *A, I, II. 3 s.h.*

MR. LINEBARGER (*first term*)  
MR. SIMPSON (*second term*)

**S62. American Government and Politics.**—Continuation of S61. *C, I, II. 3 s.h.*

MR. LINEBARGER (*first term*)  
MR. SIMPSON (*second term*)

**S223. Political Thought to the Seventeenth Century.**—A survey of political thought from the time of Plato to the close of the sixteenth century, with emphasis upon concepts of continuing importance. *B, I. 3 s.h.*

MR. R. R. WILSON

**S224. Modern Political Theory.**—Political theories of the seventeenth, eighteenth, and nineteenth centuries, with a study of their influence upon modern political institutions. *C, I. 3 s.h.*

MR. R. R. WILSON

**S225. Comparative Government.**—A study of comparative features of modern government, with special reference to bureaucracy, federalism, and fascism. The descriptive data is largely selected from the practices and experiences of European states. *A, II. 3 s.h.* MR. COLE

**S226. Comparative Government.**—A study of the comparative features of modern governments, with special reference to dictatorship, constitutions, representation, political parties, parliamentarism, and separation of powers. This course is open by permission of the instructor for enrollment to students who have had the equivalent of course S225 or are enrolled in that course. *B, II. 3 s.h.* MR. COLE

**S230. American Political Institutions.**—A study of the formation and development of institutions of the national government in the United States, with historical and analytical treatment. *A, I. 3 s.h.* MR. R. S. RANKIN

**S292. Municipal Administration.**—A study of principles and methods of municipal administration in the United States. *C, I. 3 s.h.* MR. R. S. RANKIN

## PSYCHOLOGY

**S101. Introduction to Psychology: General Principles of Mental Activity and Growth.**—Lectures, demonstrations, prescribed readings, and reports. *A, I. 3 s.h.* MR. McCULLOCH

**S201. Social Psychology.**—Lectures, readings, and reports. *B, II. 3 s.h.* MR. ADAMS

**S204. Psychology of Motivation.**—A consideration of the fundamental properties and modes of action of motivation forces, their constitutional basis, modification, and organization into complex systems of the personality. *B, I. 3 s.h. (E)* MR. ZENER

**S216. Comparative Psychology.**—Studies of animal learning at various phylogenetic levels, requiring the treatment of certain fundamental concepts such as instinct, regulation, tropisms, animal motivation, etc. Lectures with motion picture demonstration. *C, II. 3 s.h.* MR. ADAMS

**S226. Contemporary Schools of Psychology.**—The approach and contribution of the different contemporary schools to fundamental problems of psychology, considered with reference to their historical background. *C, I. 3 s.h. (E)* MR. ZENER

## RELIGION

**S51. The History of the Hebrew People.**—Survey of the contents of the historical and prophetic books of the Old Testament with particular reference to literary, historical, and religious values. *A, I. 3 s.h.* MR. MYERS

**S52. New Testament Literature.**—A study of the literature of the New Testament, its historical background, and its religious value. *C, I. 3 s.h.* MR. MYERS

**S165. Religious Drama.**—A historical survey of the relation between religion and drama, a study of the uses and underlying principles of religious drama, and a critical examination and interpretation of selected dramatic productions. *A, I. 3 s.h.* MR. SPENCE

**S168. Religious Drama: Construction and Production.**—Project work in the creation and production of religious drama and pageants. Practice in the selection, staging, lighting, and direction of religious plays. Construction of dramatic programs of worship. *B, I. 3 s.h.* MR. SPENCE

**S261. Foundations of Religious Education.**—A study of the fundamental conceptions underlying the theory of Christian education, including social, psychological, and theological aspects. *B, I. 3 s.h.* MR. H. S. SMITH



**S281. The Nature and Early Development of Religion.**—Introduction to the early history of religion, the beliefs and practices of the more primitive peoples, and the religious life of the ancient world. *A, II. 3 s.h.*

MR. CANNON

**S286. The Religions of the Far East.**—A study of the religious systems of China, Korea, and Japan. *B, II. 3 s.h.*

MR. CANNON

**S365. Studies in Character Education and the State.**—A study of the moral character of the contemporary state, including the analysis and evaluation of the ideals, values, and procedures through which democratic and opposing types of state educate for the good life and the good society. *C, I. 3 s.h.*

MR. H. S. SMITH

## SOCIOLOGY

Attention is called to the fact that Course S101 is a prerequisite to all other courses in the Department.

**S101. General Sociology.**—An introduction to the scientific study of social life; its origin, evolution, and organization, as illustrated by the study of a number of concrete social problems. This course is prerequisite to all other courses in Sociology. *Section 1 (w), Section 2 (E), B, I; A, II. 3 s.h.*

MR. ELLWOOD (*first term*)

MR. PORTERFIELD (*first and second terms*)

**S112. Introduction to Child Welfare.**—A special course in child welfare for undergraduates. (Not offered unless as many as ten students enroll.) *A, I. 3 s.h.*

MR. PORTERFIELD

**S114. Race Relations.**—Against the background of a preliminary study of inter-racial experience in other parts of the world an effort is made to understand more clearly the racial situation in the Southern states. *C, I. 3 s.h.*

MR. THOMPSON

**S205. Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. *B, II. 3 s.h.*

MR. PORTERFIELD

**S206. Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relation of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. *C, I. 3 s.h.*

MR. JENSEN

**S212. Child Welfare.**—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. *A, I. 3 s.h.*

MR. JENSEN

**S218. Cultural Anthropology.**—A study of social origins and of the earliest stages of cultural evolution; the stone and metal ages; the origins of industry, language, magic, religion, morals, science, art, and social organization in the family, horde, clan, and tribe. Lectures and assigned reading. *C, I. 3 s.h.*

MR. ELLWOOD

**S220. Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the family farm, the peasant village, the ranch, and the plantation. In this course special attention is given to the plantation and the rural problems of the South. *B, I. 3 s.h.* MR. THOMPSON

## SPANISH

**S1. Elementary Spanish.**—Pronunciation; essentials of grammar to include the regular conjugations and more common irregular verbs; early reading of simple prose; dictation. *A, C, I (first three weeks). 3 s.h.*

MR. QUINN

**S2. Elementary Spanish.**—Continuation of course S1; completion of regular and irregular verbs, the subjunctive mood; dictation; composition; reading of cultural material and stories of easy grade. *A, C, I (second three weeks). 3 s.h.*

MR. QUINN

**S65. Introduction to Modern Spanish Literature.**—Study of representative masterpieces of nineteenth-century novel and drama, with collateral reading and written reports on literary topics. *B, I. 3 s.h.*

MR. AVILÉS

**S66. Introduction to Spanish Literature of the Golden Age.**—Study of representative works in the field of Golden Age novel and drama; rapid survey of literary types and trends; collateral readings and critical reports. This course will include an introductory study of the *Don Quijote*. *C, I. 3 s.h.*

MR. AVILÉS

**S267. The Early Spanish Novel.**—Survey of the rise and development of the novel in Spain from the primitive prose narratives of the early renaissance up to the time of Cervantes. Chief stress will be laid upon the romances of chivalry, the pastoral novel and the picaresques tales of the sixteenth century. Collateral reading; assigned topics for individual reports. *A, I. 3 s.h.*

MR. LUNDEBERG

**S268. Spanish American Literature of the Colonial Period.**—This course will begin with the prose and poetry of the early period, the era of conquest and exploration; will proceed to the study of representative works by outstanding writers of the seventeenth century; and will conclude with a survey of the great national poets of the early nineteenth century. Assigned topics for individual reports; collateral reading; term papers. (Not offered unless eight students enroll.) *B, II. 3 s.h.*

MR. AVILÉS

**S269. Literature of the Gaucho.**—This course deals with the classical Gaucho poetry and prose represented by such writers as Echeverría and Sarmiento of the early period, and proceeds to the consideration of the modern Gaucho novel and drama of Uruguay and Argentine as written by such authors as Florencio Sánchez and Ricardo Güiraldes. Assigned topics for individual reports; collateral reading; term papers. (Not offered unless eight students enroll.) *C, II. 3 s.h.*

MR. AVILÉS

**S371. Seminar in the Modern Spanish Novel.**—Consideration of the literary significance of the great novelists since 1875 with special emphasis on social and humanitarian values of their work. Offers an opportunity to begin work at a thesis problem. Thesis or course credit. *B, I. 3 s.h.*

MR. LUNDEBERG

## ZOOLOGY

For admission to candidacy for a Master's degree in Zoology, students must have completed a minimum of eighteen semester-hours of biological science, including six semester-hours of zoology in courses numbered above one hundred. Other students may be permitted to take courses offered, but cannot count them toward an advanced degree until eighteen hours have been attained.

**S219 or S353. Special Problems, Research.**—Students who have sufficient preparation may be permitted to carry on investigations under direction, for a thesis or otherwise, in the following fields:

- (a) Embryology and Endocrinology. I, II. MR. CUNNINGHAM  
 (b) Comparative and General Physiology. I. MR. F. G. HALL

*Schedule to be arranged, I, II. Credit to be arranged.* Not more than one semester-hour of credit per week full-time schedule, or one semester-hour each two weeks for half-time schedule. (*Laboratory fee, \$3.00 for each three hours of credit; minimum fee, \$2.00.*)

**S321-S322. General Physiology.**—A study of fundamental physiological processes in animals, more especially vertebrates. Lectures, laboratories, and conferences, daily. I. 6 s.h. (*Laboratory fee, \$6.00.*) MR. F. G. HALL

*The following courses are planned at the Marine Laboratory in Beaufort, N. C.:*

**S207. Marine Zoology.**—I. 6 s.h. MR. PEARSE, MR. GRAY

**S219, or S353. Special Problems, Research:**

- (e) Ecology, Behavior, Parasitology.—I. MR. PEARSE  
 (f) Anatomy, Physiology, Entomology.—II. MR. GRAY

**S355. Biological Seminar.**—I. MR. BLOMQUIST, MR. GRAY, MR. PEARSE

For S219, S353, and S355, schedule and credit are to be arranged with the instructor.

For particulars as to expense, etc., write the Director of the Summer School or Dr. A. S. Pearse, Chairman of the Zoology Department, Duke University, after April 15. If for any reason these courses tentatively offered at Beaufort cannot be given, other courses on the Duke campus will be substituted.

*Specimen Application Blank*

DIRECTOR OF SUMMER SCHOOL, DUKE STATION  
DURHAM, NORTH CAROLINA

Dear Sir :

Please make temporary reservation for me in the following courses described in your Summer School Announcement.

.....  
.....  
(Signed, full name)  
Mr., Mrs., Miss.....

Street .....

Post Office Address.....

Date .....

**Be careful to give the following information:**

Are you a teacher in the public schools?.....

Name of high school from which you were graduated.....

.....  
Number of years completed in college.....

Are you a graduate?.....

Name and address of the school in which you are teaching.....

.....  
Do you wish room reserved?..... Alone?.....

First term, or Second?.....

In graduate dormitory?..... Undergraduate?.....

*N.B.* Graduate dormitories are not open to undergraduates under thirty years of age. Room reservations of graduate students are tentative until the student has been accepted by the Graduate School. Students who wish a room reserved for the first term will remit full amount of room-rent; other students simply indicate whether they desire room in graduate or undergraduate dormitory. The Summer School reserves the right to cancel room reservation or registration, for courses without assignment of reason.

*Note:* Students who do not wish to submit transcripts of their previous college record, because desiring to transfer their summer school credits to some other institution, should answer the following :

*Do you wish blank for statement* from your college certifying your present class standing and requesting transfer of your summer school record.....

*Announcement*

**JUNALUSKA SUMMER SCHOOL, INC.**

(AFFILIATED WITH DUKE UNIVERSITY)

and

**JUNALUSKA SCHOOL OF RELIGION**

LAKE JUNALUSKA, N. C.

**PAUL NEFF GARBER, A.B., A.M., Ph.D.**

DIRECTOR

**FACULTY**

AGNEW, DONALD CHARLES; A.B., Park College; A.M., Ph.D., Duke;  
EDUCATION (Coker College).

BARDEN, JOHN GLENN; A.B., University of North Carolina; A.M.,  
Columbia; Columbia, 1930-31; EDUCATION (Duke University).

BILLINGS, WILLIAM DWIGHT; A.B., Butler; A.M., Ph.D., Duke;  
BOTANY (Duke University).

CLARK, ELMER TALMADGE; A.B., Birmingham-Southern College; A.M.,  
George Peabody College; B.D., S.T.D., Temple; LL.D., Southern College;  
RELIGION (Assistant Secretary, Board of Missions, Methodist Episcopal  
Church, South).

CLARK, KENNETH WILLIS; A.B., Yale; B.D., Rochester; Ph.D., Uni-  
versity of Chicago; RELIGION (Duke University).

COPELAND, LEWIS CAMPBELL; A.B., Texas Christian; A.M., Univer-  
sity of Chicago; Duke, 1937-38; SOCIOLOGY (Duke University).

CRUM, MASON; A.B., Wofford College; A.M., Ph.D., University of South  
Carolina; RELIGION (Duke University).

DUNSTAN, ROBERT TAYLOE; A.B., Duke; A.M., Ph.D., University of  
Wisconsin; SPANISH (Greensboro College).

FITZGERALD, WILLIAM STONE; A.B., Vanderbilt; A.M., Harvard;  
Duke, 1934-37; ENGLISH (Duke University).

GARBER, PAUL NEFF; A.B., Bridgewater College; A.M., Ph.D., Univer-  
sity of Pennsylvania; RELIGION (Duke University).

McEWEN, NOBLE RALPH; A.B., Birmingham-Southern College; A.M.,  
Duke; Duke, 1930-32; EDUCATION (Salem College).

OOSTING, HENRY JOHN; A.B., Hope College; M.S., Michigan State;  
Ph.D., Minnesota University; BOTANY (Duke University).

ORMOND, JESSE MARVIN; A.B., Duke; B.D., Vanderbilt; RELIGION  
(Duke University).

OWENS, HENRY GRADY; A.B., University of North Carolina; A.M.,  
New York University; EDUCATION (Salem College).

WELFLING, WELDON WOODROW; A.B., Swarthmore College; A.M., Princeton; ECONOMICS (Duke University).

WIGGINS, ROBERT LEMUEL; A.B., Emory; A.M., Vanderbilt; Ph.D., University of Virginia; ENGLISH (Wesleyan College).

#### **BUSINESS MANAGER**

JAMES R. BOYD,  
Waynesville, North Carolina.

#### **CALENDAR, REGISTRATION, AND ADMISSION**

The Junaluska Summer School, Inc., and the Junaluska School of Religion will open June 10 and close July 22. Recitations will be held five days in the week, all Mondays except June 13 being holidays. Monday, July 4, will be observed as Independence Day.

Thursday, June 9, is reserved for the registrations of students from Haywood County; Friday, June 10, is registration day for all other students. Regular classes will meet at 8:15 Saturday morning, and recitation work will begin at once.

Certificates of high-school graduation and other credentials should be submitted to the director at the time of registration.

#### **JUNALUSKA SCHOOL OF RELIGION**

The eleventh session of the Junaluska School of Religion, which is conducted under the joint management of Duke University and the Board of Christian Education with the co-operation of the Board of Missions and other boards of the Methodist Episcopal Church, South, will be conducted as the Department of Religion in the Junaluska Summer School for the summer of 1938, its opening and closing dates being the same as for the other departments. In addition to the undergraduate credits offered by the other departments, Junaluska School of Religion will offer credits counting toward the B.D. degree. The work in Religion is designed for pastors, church workers, missionaries, and students who desire to fit themselves the better for their work or to obtain credits looking toward the securing of university degrees.

#### **COURSES OFFERED**

Professional and undergraduate courses are offered for teachers in elementary schools, teachers of primary grades and of grammar grades, and teachers of high-school subjects, for freshmen and sophomore students in colleges and for students desiring somewhat more advanced work in the field of religion.

For qualified college students, instruction will be offered in botany, economics, education, English, sociology, Spanish, and religion. Credit is allowed toward the A.B. degree at Duke University for these courses, credit toward the A.M. degree for the course in field botany, and credit toward the B. D. degree for the advanced courses in religion.



**COURSES IN FIELD BOTANY**

Special courses in field botany will be offered to public school teachers of nature study, high-school teachers of botany and biology, and to qualified college students. The courses are unique in that they will consist of a careful survey of the plant life found in the mountains of western North Carolina. Frequent excursions and field trips will be made to Mount Mitchell, Mount Pisgah, the famous Pink Beds, and other sections abundant in unusual flora. A considerable amount of time will be spent in the new Great Smoky Mountain National Park area.

**FEES AND EXPENSES**

Tuition charge for college students other than teachers is \$10.00. Teachers are exempt from tuition, as are also ministerial students who register in the Junaluska School of Religion. Expenses may therefore be estimated by teachers and School of Religion students as follows:

	Low	High
Registration .....	\$20.00	\$20.00
Room and Board .....	50.00	66.00
Library and Recreation Fee .....	2.00	2.00
	<hr/>	<hr/>
	\$72.00	\$88.00

To this should be added about \$5.00 for books and probably \$5.00 for miscellaneous expenses, besides the tuition charge for students other than teachers. Since Haywood County contributes toward the registration fees of its teachers, Haywood County teachers pay only \$8.00 of the total registration fee.

**HOTELS, BOARDING HOUSES, AND FURNISHED COTTAGES**

Information relative to board and room may be obtained by addressing Mr. J. R. Boyd, Business Manager, Waynesville, North Carolina, or Business Manager, Southern Assembly, Lake Junaluska, North Carolina.

## COURSES OF INSTRUCTION

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(*Note.* In the description of courses the following abbreviations occur: *Period A* means that the course comes the first eighty minutes daily, beginning at 8:15; *Period B* means that the course comes at the eighty-minute period beginning at 9:45; *Period D* means that the course meets an eighty-minute period daily, beginning at 11:45. All courses carry three semester-hours credit unless otherwise specified.)

For complete bulletin giving description of courses, address Dr. Paul N. Garber, Director of Junaluska Summer School, Duke Station, Durham, N. C.

### BOTANY

S52. Introductory Field Botany.—*B.*

MR. BILLINGS

S225. Field Botany.—The aim of this course is to present to the students a first-hand knowledge of plants in their native habitats. The field work will be done in the mountain areas of western North Carolina and will include the Pisgah Forest and Smoky Mountain sections. The course will consist of practice in the identification of plants in the field and a study of their natural history and associations. Field trips daily, also lectures, readings, reports, etc. 4 or 6 s.h. *Schedule to be arranged. Graduate or undergraduate credit.*

MR. OOSTING

S226. Special Problems.—Open only to students with training equivalent to S225. The work may involve either field and laboratory study of special taxonomic groups or the investigation of ecological relationships in some of the varied local plant communities. 2 to 6 s.h. *Schedule to be arranged. Graduate or undergraduate credit.*

MR. OOSTING

### ECONOMICS

S131. The Economic History of Modern Europe.—*B.*

MR. WELFLING

S132. The Economic History of the United States.—*D.*

MR. WELFLING

### EDUCATION

S52. Materials and Methods in Nature Study.—*B.*

MR. BILLINGS

S58. The Learning Process.—*A.*

MR. OWENS

S68. Mental Hygiene of the School Child.—*B.*

MR. AGNEW

S83. Current Trends in American Public School Organization.—*A.*

MR. BARDEN

S103. School Organization and Administration for the Classroom Teacher.—*D.*

MR. BARDEN

S117. Analysis of Study and Study Habits in the Elementary School Subjects.—*D.*

MR. AGNEW

S121. Grammar Grade Methods in Reading and Language.—*B.*

MR. OWENS

S158. Educational Measurements.—*D.*

MR. McEWEN

S182. The Teaching of Geography.—*A.*

MR. McEWEN

## ENGLISH

S55. Prose Masterpieces.— <i>A</i> .	MR. FITZGERALD
S64. A Survey of English Poetry.— <i>B</i> .	MR. WIGGINS
S124. Shakespeare's Tragedies.— <i>D</i> .	MR. FITZGERALD
S138. American Literature.— <i>A</i> .	MR. WIGGINS

## RELIGION

S210. The Religion of Jesus.— <i>D</i> .	MR. K. W. CLARK
S215. The Development of Early Christianity.— <i>B</i> .	MR. K. W. CLARK
S235. Modern Religious Leaders.— <i>B</i> .	MR. GARBER
S251. The Rural Church and Sociology.— <i>A</i> .	MR. ORMOND
S281. Missions in the Modern World.— <i>A</i> .	MR. E. T. CLARK

## FOR UNDERGRADUATES ONLY

S129. Character Problems.— <i>A</i> .	MR. CRUM
S170. Religion and the Modern Home.— <i>B</i> .	MR. CRUM

## SOCIOLOGY

S101. General Sociology.— <i>D</i> .	MR. COPELAND
S142. The Family and Marriage.— <i>A</i> .	MR. COPELAND

## SPANISH

S3. Intermediate Spanish.— <i>B</i> .	MR. DUNSTAN
S4. Intermediate Spanish.— <i>D</i> .	MR. DUNSTAN



# INDEX

- Accounting, Courses in, 32
- Admission, 14
- Administrative Courses, 33
- Administrative Officers, 3
- Affiliated Summer Schools, 26, 57
- American Literature, Courses in, 43, 44, 45
- Application Blank, specimen, 56
- Appointments Bureau, 25
- Beaufort, Marine Courses at, 30, 55
- Biology, Courses in, 29, 55
- Board and Rooms, 23
- Botany, Courses in, 29
- Calendar, 13
  - changes for summer of 1938, 13
- Campus and Buildings, 12
- Carillon, 26
- Certification of Teachers, 14, 15, 29
  - Special Note for North Carolina, 28
- Chemistry, Courses in, 30
- Coaching School, 26
- Courses of Instruction, 29
- Credits, 14
- Curriculum Reconstruction, Courses in, 28
- Dormitories, 23
- Dramatics, Courses in, 43, 52
- Drawing, Course in, 41
- Duke University, 12
- Economics, Courses in, 31
- Education, Courses in, 33
  - Undergraduate, Courses in, 39
- Educational Psychology, Courses in, 36
- Elementary Education, Courses in, 38, 39
- Engineering, Courses in, 42
- English, Courses in, 42
- Enrollment, 12
- Entertainment, 25
- Examinations, 15
- Expenses, 24
- Explanations and Abbreviations, 29
- Faculty, 3
- Fees, 24
- Forestry, 45
- French, Courses in, 46
- Geography, Courses in, 32, 46
- Geology, Course in, 46
- German, Courses in, 47
- Government, Courses in, 47
- Graduate Instruction, 18, 27
  - advanced degree, 18
  - candidacy for degree, 18
  - minimum residence requirements, 19
  - transfer of credits from elsewhere, 20
  - degree of Doctor of Philosophy, 18, 22
  - thesis writing in Summer School, 19, 22
  - major and minor subjects, 19
  - suggested program for Master's degree, 20
- Grammar Grade Teachers' Courses, 38, 39
- Growth of Summer School, 12
- Health Education, Courses in, 42
- High-School Teachers' Courses, 37
- History, Courses in, 47
- Hygiene, Course in, 42
- Industrial Art, 42
- Journalism, Course in, 43
- Junaluska Summer School, Inc., 26, 57
- Libraries, 12
- Marine Biology, Courses in, 30, 55
- Master's degrees, New Requirements for, 15, 18, 20
- Master of Arts degree, 17, 18
- Master of Education degree, 20, 27
  - Special courses for, 17, 21
- Mathematics, Courses in, 49
- Music, Course in, 42
- N. C. Teachers, Special Notice to, 28
- Numbering of Courses, 14
- Physics, Courses in, 51
- Political Science, Courses in, 51
- Primary Teachers' Courses, 38, 39
- Psychology, Courses in, 52
- Public School Administration, Courses in, 33
- Public School Supervision, 34
- Recreation and Entertainment, 25
- Registration, 13
  - Admission, 14
- Religion, Courses in, 52
- Religious Services, 25
- Reservation of Rooms and Courses, 24
- Residence Requirements for degrees, 15, 19
- Rooms and Board, 23
- Schedule of courses, *see* Explanations and Abbreviations, 29
- School for Workers in Children's Homes and Orphanages, 26
- Secondary Education Courses, 37
- Sociology, Courses in, 53
- Spanish, Courses in, 54
- Statistics as to enrollment, 12
- Surveying, 42, 45
- Thesis for Master's degree, 19, 22
- Thesis Courses, 29
- Thesis Writing, 22
- Tri-State Conference of Orphanage Workers, 26
- Zoology, 55









VOLUME 10

March, 1938

NUMBER 3-B

# BULLETIN OF DUKE UNIVERSITY

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## *Undergraduate Instruction*

(Trinity College and the Woman's College)



1937-1938

ANNOUNCEMENTS FOR 1938-1939

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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For BULLETIN OF THE SUMMER SCHOOL, apply to *The Director of the Summer School*, Duke University, Durham, N. C.

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BULLETIN  
OF  
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DURHAM, NORTH CAROLINA

1938





## TABLE OF CONTENTS

	PAGE
UNIVERSITY CALENDAR.....	5
 GOVERNING BODIES AND OFFICERS	
Executive Committee of the University.....	9
University Trustees.....	9
Endowment Trustees.....	10
Committees of the University Trustees.....	10
 OFFICERS OF ADMINISTRATION	
General Administration.....	11
Business Administration.....	11
Public Relations and Alumni Affairs.....	12
Educational Administration.....	12
Instructional Staff.....	13
Instructional Assistants.....	27
University Libraries.....	35
University Chapel.....	38
Physical Education and Student Health.....	38
Social and Musical Activities.....	39
GENERAL STATEMENT: TRINITY COLLEGE AND THE WOMAN'S COLLEGE.....	40
ADMISSION TO COLLEGE.....	42
 REQUIREMENTS FOR DEGREES	
Bachelor of Arts	
General and Special Regulations.....	45
Groups of Studies.....	47
Bachelor of Science	
General and Special Regulations.....	57
Groups of Studies.....	58
Bachelor of Science in Engineering	
General Statement and Admission.....	61
Groups of Studies.....	62
 COURSES OF INSTRUCTION	
Botany .....	66
Chemistry .....	69
Economics and Business Administration.....	72
Education .....	78
General Engineering.....	85
Civil Engineering.....	85
Electrical Engineering.....	87
Mechanical Engineering.....	88
English .....	90
Fine Arts.....	94
Forestry .....	96

	PAGE
COURSES OF INSTRUCTION ( <i>Continued</i> )	
Geology .....	99
German Language and Literature.....	99
Greek .....	102
Health and Physical Education.....	104
History .....	107
Latin and Roman Studies.....	111
Law Courses for Academic Students.....	114
Mathematics .....	114
Music .....	118
Philosophy .....	118
Physics .....	122
Political Science.....	124
Psychology .....	126
Religion .....	128
Romance Languages.....	132
Sociology .....	135
Zoology .....	138
Courses on the Middle and Far East.....	139
GENERAL REGULATIONS.....	142
FEES, EXPENSES, ROOMS, BOARD.....	153
SCHOLARSHIPS, LOANS, AND EMPLOYMENT AID.....	159
HONORS AND PRIZES.....	163
STUDENT ORGANIZATIONS AND ACTIVITIES.....	165

## UNIVERSITY CALENDAR

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1938

- June 13. Monday, 9:00 A.M.—Registration of students for Summer School, first term.
- June 13. Monday, 2:00 P.M.—Instruction begins for Summer School, first term.
- July 4. Monday—Independence Day: a holiday.
- July 22-23. Friday, Saturday—Final examinations for Summer School, first term.
- July 25. Monday, 9:00 A.M.—Registration of students for Summer School, second term.
- July 25. Monday, 2:00 P.M.—Instruction begins for Summer School, second term.
- Sept. 2-3. Friday, Saturday—Final examinations for Summer School, second term.
- Sept. 15. Thursday, 9:00 A.M.—Dormitories open to Freshmen.
- Sept. 15. Thursday, 8:00 P.M.—Assembly for all entering Freshmen; Freshmen Orientation Program begins.
- Sept. 20. Tuesday—Freshman instruction begins.
- Sept. 20. Tuesday—Registration and matriculation of new students with advanced standing.
- Sept. 21. Wednesday, 11:00 A.M.—Formal opening of the College; registration of matriculated students.
- Sept. 22. Thursday—Instruction for Sophomores, Juniors, and Seniors begins.
- Sept. 22-24. Thursday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-4:00 P.M.; Friday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-5:00 P.M.; Saturday, 9:00 A.M.-1:00 P.M.—Registration of graduate students.
- Nov. 11. Friday—Armistice Day.
- Nov. 24. Thursday—Thanksgiving Day: a holiday.
- Dec. 10. Saturday—Duke University Day.
- Dec. 20. Tuesday, 1:00 P.M.—Christmas recess begins.

1939

- Jan. 3. Tuesday, 8:00 A.M.—Instruction is resumed.
- Jan. 17. Tuesday—Mid-year examinations begin.
- Jan. 31. Tuesday—Last day for matriculation for second semester.
- Feb. 1. Wednesday—Second semester begins.

- March 25. Saturday, 1:00 P.M.—Spring vacation begins.
- April 3. Monday, 8:00 A.M.—Instruction is resumed.
- April 15. Saturday—Last day for submitting orations for Wiley Gray Contest.
- April 21, 22, 23. Friday, Saturday, Sunday—Centennial Celebration.
- April 29. Saturday—Last day for selection of courses for ensuing year.
- May 13. Saturday—Earliest date for beginning of Honors examinations.
- May 19. Friday—Final examinations begin.
- June 3. Saturday—Commencement opens; Senior Class Day; meeting of the Board of Trustees.
- June 4. Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 5. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

# 1938

JANUARY	APRIL	JULY	OCTOBER
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# GOVERNING BODIES AND OFFICERS

## EXECUTIVE COMMITTEE OF THE UNIVERSITY

(Consisting of three members from the University Trustees, three from the Endowment Trustees, and the President of the University.)

	Year of Election		
J. F. BRUTON, Chairman.....	1918.....	Wilson,	N. C.
G. G. ALLEN.....	1923.....	New York,	N. Y.
W. P. FEW.....	1910.....	Durham,	N. C.
M. E. NEWSOM.....	1917.....	Durham,	N. C.
W. N. REYNOLDS.....	1933.....	Winston-Salem,	N. C.
J. H. SEPARK.....	1929.....	Gastonia,	N. C.
W. R. PERKINS.....	1937.....	New York,	N. Y.
R. L. FLOWERS, Recording Secretary.....	1923.....	Durham,	N. C.

## UNIVERSITY TRUSTEES

### Term Expires December 31, 1939

M. E. NEWSOM.....	1917.....	Durham,	N. C.
W. R. ODELL.....	1888.....	Concord,	N. C.
J. A. THOMAS.....	1936.....	White Plains,	N. Y.
W. W. PEELE.....	1921.....	Charlotte,	N. C.
W. R. PERKINS.....	1924.....	New York,	N. Y.
D. C. ROPER.....	1929.....	Washington,	D. C.
F. M. WEAVER.....	1909.....	Asheville,	N. C.
B. S. WOMBLE.....	1915.....	Winston-Salem,	N. C.

### FROM THE ALUMNI

H. R. DWIRE, Ass't. Rec. Secretary.....	1931.....	Durham,	N. C.
R. A. MAYER.....	1897.....	Charlotte,	N. C.
F. M. SIMMONS.....	1892.....	New Bern,	N. C.
W. A. STANBURY.....	1933.....	Asheville,	N. C.

### Term Expires December 31, 1941

J. F. BRUTON, Chairman.....	1900.....	Wilson,	N. C.
T. F. MARR, Vice-Chairman.....	1900.....	Brevard,	N. C.
D. S. ELIAS.....	1929.....	Asheville,	N. C.
P. H. HANES.....	1912.....	Winston-Salem,	N. C.
J. L. HORNE, JR.....	1934.....	Rocky Mount,	N. C.
J. A. LONG.....	1915.....	Roxboro,	N. C.
S. B. TURRENTINE.....	1893.....	Greensboro,	N. C.
EARLE W. WEBB.....	1933.....	New York,	N. Y.

### FROM THE ALUMNI

S. S. ALDERMAN.....	1934.....	Washington,	D. C.
W. N. REYNOLDS.....	1927.....	Winston-Salem,	N. C.
J. H. SEPARK.....	1916.....	Gastonia,	N. C.
WILLIS SMITH.....	1929.....	Raleigh,	N. C.

## Term Expires December 31, 1943

	Year of Election		
R. L. FLOWERS, Recording Secretary.....	1927.....	Durham,	N. C.
G. G. ALLEN.....	1923.....	New York,	N. Y.
J. H. BARNHARDT.....	1918.....	Raleigh,	N. C.
JAMES A. BELL.....	1920.....	Charlotte,	N. C.
R. G. CHERRY.....	1934.....	Gastonia,	N. C.
THOMAS M. GRANT.....	1933.....	Greenville,	N. C.
J. R. SMITH.....	1934.....	Mount Airy,	N. C.
J. P. FRIZZELLE.....	1937.....	Snow Hill,	N. C.

## FROM THE ALUMNI

W. W. FLOWERS.....	1925.....	New York,	N. Y.
J. B. HURLEY.....	1896.....	Goldsboro,	N. C.
C. F. LAMBETH.....	1915.....	Thomasville,	N. C.
C. K. PROCTOR.....	1935.....	Oxford,	N. C.

## ENDOWMENT TRUSTEES

MRS. J. B. DUKE.....	1924.....	New York,	N. Y.
G. G. ALLEN, Chairman.....	1924.....	New York,	N. Y.
W. R. PERKINS, Vice-Chairman.....	1924.....	New York,	N. Y.
E. C. MARSHALL, Assistant Secretary.....	1924.....	Charlotte,	N. C.
N. A. COCKE, Vice-Chairman.....	1924.....	Charlotte,	N. C.
C. I. BURKHOLDER.....	1924.....	Charlotte,	N. C.
B. E. GEER.....	1924.....	Greenville,	S. C.
A. H. SANDS, Jr., Secretary.....	1924.....	New York,	N. Y.
W. C. PARKER, Treasurer.....	1924.....	New York,	N. Y.
W. B. BELL.....	1924.....	New York,	N. Y.
W. S. RANKIN.....	1925.....	Charlotte,	N. C.
R. L. FLOWERS.....	1926.....	Durham,	N. C.
W. N. REYNOLDS.....	1931.....	Winston-Salem,	N. C.
W. S. O'B. ROBINSON, JR.....	1932.....	Charlotte,	N. C.
MRS. DORIS DUKE CROMWELL.....	1933.....	New York,	N. Y.

## COMMITTEES OF THE UNIVERSITY TRUSTEES

*Buildings and Grounds:* J. R. SMITH, CHERRY, BARNHARDT.

*Business Administration of the University:* ODELL, LONG, ELIAS.

*Colleges:* ALDERMAN, ROPER, HORNE.

*Forestry:* DWIRE, W. W. FLOWERS, NEWSOM.

*Graduate School:* WEBB, TURRENTINE, SIMMONS, R. L. FLOWERS.

*Law School:* WILLIS SMITH, WOMBLE, BELL, FRIZZELLE.

*Library:* STANBURY, HANES, LAMBETH, WEAVER.

*Medical School and Hospital:* THOMAS, MAYER, PROCTOR.

*School of Religion:* PEELE, GRANT, HURLEY, MARR.

## OFFICERS OF ADMINISTRATION

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### GENERAL ADMINISTRATION

FEW, WILLIAM PRESTON, A.B., A.M., Ph.D., Litt.D., Ed.D., LL.D. <i>President</i>	West Campus
FLOWERS, ROBERT LEE, A.M., LL.D. <i>Vice-President in the Business Division, Secretary and Treasurer</i>	West Campus
WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D. <i>Vice-President in the Educational Division and Dean of the University</i>	West Campus
BROWN, FRANK CLYDE, A.B., A.M., Ph.D. <i>Comptroller</i>	410 Buchanan Road

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### BUSINESS ADMINISTRATION

FLOWERS, ROBERT LEE, A.M., LL.D. <i>Secretary and Treasurer</i>	West Campus
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ROBERSON, HELEN, MRS. <i>Dietitian, the Union</i>	East Campus
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WILKINSON, ALBERT ALEXANDER <i>Director, the News Service</i>	1113 Alabama Avenue

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WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D. <i>Dean of the University and of Trinity College</i>	West Campus
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WILSON, MARY GRACE, A.B. <i>Dean of Residence, Woman's College, Head of Brown House</i>	Brown House
HUCKABEE, ELLEN HARRIS, A.B., A.M. <i>Assistant Dean of Residence, Woman's College, Head of Pegram House</i>	Pegram House

#### INSTRUCTIONAL STAFF

*This alphabetical list includes all members of the various faculties of the University. The date denotes the first year of service.*

*ADAMS, DONALD KEITH, (1931) A.B., M.A., Ph.D. <i>Assistant Professor of Psychology</i>	Cornwallis Road
**ADDOMS, RUTH MARGERY, (1930) B.A., M.A., Ph.D. <i>Assistant Professor of Botany</i>	1003 Lamond Avenue
ALDRIDGE, FRED SOULE, (1922) A.B., A.M. <i>Assistant Professor of Mathematics</i>	East Campus
ALTVATER, F. VERNON, (1930) A.B., A.M. <i>Associate in Hospital Administration</i>	1736 Forest Hills Boulevard, W.
ALYEA, EDWIN PASCAL, (1930) S.B., M.D. <i>Associate Professor of Surgery in Charge of Urology</i>	Hope Valley
ANDERSON, CHARLES ROBERTS, (1930) A.B., A.M., Ph.D. <i>Assistant Professor of English</i>	1007 Lakewood Avenue
ANDERSON, LEWIS EDWARD, (1936) B.S., A.M., Ph.D. <i>Instructor in Botany</i>	1222 Sixth Street
ANDERSON, WILLIAM BANKS, (1930) A.B., M.D. <i>Associate Professor of Surgery in Charge of Ophthalmology</i>	10 Beverly Apartments
ARENA, JAY MORRIS, (1933) B.S., M.D. <i>Associate in Pediatrics</i>	1104 Virginia Avenue
ATWOOD, THEODORE W., (1934) A.B., D.M.D. <i>Associate in Dentistry</i>	Allenton Apartments
AVILÉS, LUIS, JR., (1935) A.B., A.M., Ph.D. <i>Instructor in Romance Languages</i>	1405 Alabama Avenue
AYCOCK, THOMAS MALCOLM, (1937) B.S., M.A. <i>Instructor in Physical Education</i>	2602 Englewood Avenue

\* Absent on leave, 1937-1938.

\*\* Absent on leave, second semester, 1938-1939.

- BAKER, BESSIE, (1930) B.S., R.N.  
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*Professor of Nursing Education* Nurses Home
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*Assistant Professor of Pathology* 1111 Watts Street
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*Associate Professor of Physiology and Pharmacology*  
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*Assistant Professor of Biochemistry* Woodridge Drive, Rockwood
- BERRY, EDWARD WILLARD, (1936) A.B., Ph.D.  
*Assistant Professor of Geology* 1003 N. Gregson Street
- BERRY, THOMAS SENIOR, (1935) S.B., M.A.  
*Instructor in Economics* Vineyard Street
- BIGELOW, LUCIUS AURELIUS, (1929) S.B., Ph.D.  
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*Assistant Professor of Accounting* 135 Pinecrest Road
- \*BLACKBURN, WILLIAM MAXWELL, (1926) A.B., B.A., M.A.  
*Assistant Professor of English* Anderson Street
- BLOMQUIST, HUGO LEANDER, (1920) B.S., Ph.D.  
*Professor of Botany* 922 Demarius Street
- BOLICH, WILLIAM BRYAN, (1927) A.B., B.A. (Juris.), M.A., B.C.L.  
*Professor of Law* Hope Valley
- BONNER, LYMAN GAYLORD, (1937) A.B., Ph.D.  
*Instructor in Physics* 515 S. Duke Street
- BOOKHOUT, CAZLYN GREEN, (1935) A.B., A.M., Ph.D.  
*Instructor in Zoology* 12 Bickett Apartments, Gregson Street
- \*\*BOYD, WILLIAM KENNETH, (1906) A.B., A.M., Ph.D.  
*Professor of History* Hope Valley
- BRADFORD, WILLIAM ZIEGLER, (1934) B.S., M.D.  
*Director, Outside Obstetric Service* Duke Hospital and Charlotte, N. C.
- BRADWAY, JOHN SAEGER, (1931) A.B., A.M., LL.B.  
*Professor of Law* 111 Briarcliff Road

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\* Absent on leave, 1937-1938.

\*\* Deceased, January 19, 1938.



- \*BRANSCOMB, BENNETT HARVIE, (1925) A.B., B.A., M.A., Ph.D.  
*Professor of New Testament Language and Literature*  
 Chelsea Circle, Hope Valley
- BRIDGERS, FURMAN ANDERSON, (1926) A.B., A.M.  
*Assistant Professor of Romance Languages* 1325 Arnette Avenue
- BROADHEAD, EDWARD HALL, (1933) A.B., A.M.  
*Instructor in Music* 1001 Watts Street
- BROWN, FRANCES, (1931) A.B., Ph.D.  
*Instructor in Chemistry* 205 Jones Street
- BROWN, FRANK CLYDE, (1909) A.B., A.M., Ph.D.  
*Professor of English* 410 Buchanan Road
- BROWNELL, WILLIAM ARTHUR, (1930) A.B., A.M., Ph.D.  
*Professor of Educational Psychology* Hope Valley
- BRYSON, THADDEUS DILLARD, (1928)  
*Professor of Law* Hope Valley
- CALLAWAY, JASPER LAMAR, (1937) M.D.  
*Instructor in Medicine, Dermatology and Syphilology* 907 Second Street
- CANNON, JAMES, III, (1919) A.B., A.M., Th.B., Th.M.  
*Ivey Professor of History of Religion and Missions*  
 Chelsea Circle, Hope Valley
- CARLITZ, LEONARD, (1932) A.B., A.M., Ph.D.  
*Associate Professor of Mathematics* 1410 Markham Avenue
- CARPENTER, DAVID WILLIAMS, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of Physics* 137 Pinecrest Road
- CARR, JOHN WINDER, JR., (1926) A.B., A.M., Ph.D.  
*Associate Professor of Education* 926 Monmouth Avenue
- CARROLL, EBER MALCOLM, (1923) A.B., A.M., Ph.D.  
*Professor of History* 113 Faculty Apartments
- CARTER, BAYARD, (1931) A.B., B.A., M.A., M.D.  
*Professor of Obstetrics and Gynecology* Myrtle Drive, West Campus
- CAVERS, DAVID FARQUHAR, (1931) B.S., LL.B.  
*Professor of Law* 414 Carolina Circle
- CHAPMAN, ROBERT G., (1936) B.S. in M.E., M.M.E.  
*Instructor in Mechanical Engineering* 1007 West Trinity Avenue
- CHILDS, BENJAMIN GUY, (1924) B.A., M.A.  
*Professor of Education* 1019 West Markham Avenue
- CLARK, KENNETH WILLIS, (1931) A.B., B.D., Ph.D.  
*Assistant Professor of New Testament Language and Literature*  
 11 Bickett Apartments, Gregson Street
- CLYDE, PAUL HIBBERT, (1937) A.B., A.M., Ph.D.  
*Associate Professor of History* 1542 Hermitage Court
- \*\*COILE, THEODORE STANLEY, (1935) B.S.F., M.F.  
*Assistant Professor of Forest Soils* Duke University
- COLE, ROBERT TAYLOR, (1935) A.B., A.M., Ph.D.  
*Associate Professor of Political Science* 1015 Demarius Street
- CONANT, NORMAN FRANCIS, (1935) B.S., A.M., Ph.D.  
*Associate in Bacteriology and Mycology* Tuscaloosa Forest

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\* Absent on leave, 1937-1938.

\*\* Absent on leave, second semester, 1938-1939.

- CONSTANT, FRANK WOODBRIDGE, (1930) B.S., Ph.D.  
*Assistant Professor of Physics* 1607 Hermitage Court
- COOLIDGE, THOMAS BUCKINGHAM, (1935) B.A., M.D.  
*Associate in Biochemistry* 2414 Club Boulevard
- COWPER, FREDERICK AUGUSTUS GRANT, (1918) A.B., A.M., Ph.D.  
*Professor of Romance Languages* 1017 Dacian Avenue
- CRISPELL, RAYMOND, (1933) A.B., M.D.  
*Associate Professor of Medicine in Charge of Neuropsychiatry*  
 Myrtle Drive, West Campus
- CRUM, MASON, (1930) A.B., Ph.D.  
*Assistant Professor of Biblical Literature* 1308 Markham Avenue
- CUNNINGHAM, BERT, (1916) B.S., M.S., Ph.D.  
*Professor of Biology* 1200 Markham Avenue
- DANIEL, WALTER EUGENE, (1936) B.A., M.D.  
*Instructor in Urology* Duke Hospital
- DANN, WILLIAM JOHN, (1935) B.S., Ph.D.  
*Assistant Professor of Physiology and Nutrition* 1307 Arnette Avenue
- DAVIS, GIFFORD, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of Romance Languages* Nation Avenue
- DAVISON, WILBUR CORNELL, (1927) A.B., B.A., B.Sc., M.A., D.Sc., M.D.  
*Professor of Pediatrics* Hope Valley
- DELAPLANE, WALTER HAROLD, (1934) A.B., A.M., Ph.D.  
*Instructor in Economics* Legion Avenue, Tuscaloosa Forest
- DE VYVER, FRANK TRAVER, (1935) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 214 Swift Avenue
- DICK, MACDONALD, (1932) B.A., M.A., M.D.  
*Associate in Medicine, Physiology and Pharmacology*  
 1011 Monmouth Avenue
- DOW, NEAL, (1934) A.B., A.M.  
*Instructor in Romance Languages* 205 Forest Wood Drive
- DRESSEL, FRANCIS GEORGE, (1929) B.S., M.S., Ph.D.  
*Instructor in Mathematics* Route 1, Box 106, Durham
- DUBS, HOMER HASENSLUE, (1937) A.B., A.M., Ph.D.  
*Acting Professor of Philosophy* 2415 Club Boulevard
- EADIE, GEORGE SHARP, (1930) B.A., M.A., M.B., Ph.D.  
*Professor of Physiology and Pharmacology* Hope Valley
- EAGLE, WATT WEEMS, (1930) A.B., M.D.  
*Associate Professor of Surgery in Charge of Otolaryngology*  
 804 Anderson Street
- EASLEY, HOWARD, (1930) A.B., M.A., Ph.D.  
*Assistant Professor of Education* Legion Avenue, Tuscaloosa Forest
- EDWARDS, CHARLES WILLIAM, (1898) A.B., A.M., M.S.  
*Professor of Physics* 406 Buchanan Road
- EITEMAN, WILFORD J., (1937) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 106 Erwin Apartments
- ELLIOTT, WILLIAM WHITFIELD, (1925) B.A., M.A., Ph.D.  
*Professor of Mathematics* 1404 Arnette Avenue
- ELLWOOD, CHARLES ABRAM, (1930) Ph.B., Ph.D., LL.D.  
*Professor of Sociology* Pinecrest Road

ERICKSON, CYRUS CONRAD, (1937) B.S., B.M., M.D. <i>Instructor in Pathology</i>	2219 Club Boulevard
EVERETT, JOHN WENDELL, (1932) A.B., Ph.D. <i>Associate in Anatomy</i>	Woodridge Drive
FERGUSON, GEORGE BURTON, (1937) M.S., M.D. <i>Instructor in Bronchoscopy</i>	Beverly Apartments
FINKELSTEIN, HAROLD, (1931) B.S., M.D. <i>Associate in Surgery</i>	Washington Duke Hotel
FITZGERALD, WILLIAM STONE, (1935) A.B., A.M. <i>Instructor in English</i>	6 Powe Apartments, 603 Watts Street
FLETCHER, RICHARD VAN, (1937) B.S., M.D. <i>Instructor in Surgery</i>	Duke Hospital
FORBUS, WILEY DAVIS, (1930) A.B., M.D. <i>Professor of Pathology</i>	Hope Valley
*FULLER, LON, (1931) A.B., J.D. <i>Professor of Law</i>	Hope Valley
GARBER, PAUL NEFF, (1924) A.B., A.M., Ph.D. <i>Professor of Church History</i>	Myrtle Drive, West Campus
GARDINER, ANN HENSHAW, (1930) R.N., B.S., M.S. <i>Associate Professor of Nursing Education</i>	Nurses Home
GARDNER, CLARENCE ELLSWORTH, JR., (1930) A.B., M.D. <i>Assistant Professor of Surgery</i>	Apt. 4, 813 Second Street
GATES, ARTHUR MATHEWS, (1909) A.B., A.M., Ph.D. <i>Assistant Professor of Latin</i>	1030 West Trinity Avenue
GERGEN, JOHN JAY, (1936) A.B., M.A., Ph.D. <i>Associate Professor of Mathematics</i>	1012 W. Trinity Avenue
GIBSON, WILLIAM MARION, (1934) A.B., A.M., Ph.D. <i>Instructor in Political Science</i>	2014 Wilson Street
**GILBERT, ALLAN, (1920) B.A., A.M., Ph.D. <i>Professor of English</i>	516 Carolina Circle
GILBERT, KATHERINE EVERETT, (1930) A.B., A.M., Ph.D. <i>Professor of Philosophy</i>	516 Carolina Circle
**GLASSON, WILLIAM HENRY, (1902) Ph.B., Ph.D. <i>Professor of Political Economy and Social Science</i>	710 Buchanan Road
GOHDES, CLARENCE, (1930) A.B., A.M., Ph.D. <i>Associate Professor of English</i>	1104 Watts Street
GRAVES, ROBERT WILLIAMS, (1936) B.S., M.A., M.D. <i>Associate in Urology and Anatomy</i>	Pickett Road
GRAY, IRVING EMERY, (1930) B.S., M.S., Ph.D. <i>Associate Professor of Zoology</i>	1411 Arcadia Street
GREENE, WALTER KIRKLAND, (1928) A.B., A.M., Ph.D. <i>Professor of English</i>	Myrtle Drive, West Campus
GREENWOOD, JOSEPH, (1930) A.B., A.M., Ph.D. <i>Instructor in Mathematics</i>	Nation Avenue
***GROSS, PAUL MAGNUS, (1919) B.S., A.M., Ph.D. <i>William Howell Pegram Professor of Chemistry</i>	Hope Valley

\* Absent on leave, second semester, 1937-1938.

\*\* Absent on leave, second semester, 1938-1939.

\*\*\* Absent on leave, first semester, 1937-1938.

- GROUT, JULIA REBECCA, (1924) A.B., M.S.  
*Director of Physical Education, Woman's College* 104 Faculty Apartments
- HALL, FRANK GREGORY, (1926) A.B., A.M., Ph.D.  
*Professor of Zoology* 911 W. Markham Avenue
- HALL, LOUISE, (1931) B.A., S.B. in Architecture, Brevet d'Art de la Sorbonne  
*Assistant Professor of Fine Arts* 211 Faculty Apartments
- HALL, WILLIAM HOLLAND, (1915) A.B., A.M., B.C.E., M.S.C.E.  
*Professor of Engineering* 11 Beverly Apartments
- HAMBLÉN, EDWIN CROWELL, (1931) B.S., M.D.  
*Associate Professor of Obstetrics and Gynecology* 814 Forest Hill Road
- \*HAMILTON, EARL JEFFERSON, (1927) B.S., A.M., Ph.D.  
*Professor of Economics* 1015 Demarius Street
- HAMILTON, WILLIAM BASKERVILLE, JR., (1936) A.B., A.M.  
*Instructor in History* 1018 Monmouth Avenue
- HANES, FREDERIC MOIR, (1931) A.B., A.M., M.D.  
*Florence McAlister Professor of Medicine* 2127 Myrtle Drive, West Campus
- HANSEN-PRÜSS, OSCAR CARL EDWARD, (1930) A.B., M.D.  
*Associate Professor of Medicine* 3 Surry Road, Hope Valley
- HARGITT, GEORGE THOMAS, (1930) Ph.B., A.M., Ph.D.  
*Professor of Zoology* 811 Watts Street
- HARRAR, ELLWOOD SCOTT, (1936) B.S., M.S., Ph.D.  
*Associate Professor of Wood Technology* 1402 Alabama Avenue
- HARRIS, JEROME SYLVAN, (1937) A.B., M.D.  
*Instructor in Pediatrics and Biochemistry* 208 Atlas Street
- \*\*HARRISON, EDWARD K., (1935) A.B., M.D.  
*Instructor in Roentgenology*
- HART, DERYL, (1930) A.B., A.M., M.D.  
*Professor of Surgery* Duke University Road and Highway 751
- HART, HORNELL NORRIS, (1938) A.B., M.A., Ph.D.  
*Professor of Sociology* Duke University
- HARWELL, GEORGE CORBIN, (1935) A.B., A.M.  
*Instructor in English* No. 8, Aycock Apartments, Dacian Avenue
- HASBROUCK, FRANCIS MAHLON, (1935) A.B., Ph.D.  
*Instructor in Romance Languages* 418 Carolina Circle
- HATLEY, CHARLES CLEVELAND, (1917) A.B., A.M., Ph.D.  
*Professor of Physics* 708 Buchanan Road
- HAUSER, CHARLES ROY, (1929) B.S., M.S., Ph.D.  
*Assistant Professor of Chemistry* 1020 Rose Hill Avenue
- HERRING, HERBERT JAMES, (1924) A.B., A.M.  
*Assistant Professor of Public Speaking* Myrtle Drive, West Campus
- HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.  
*Associate Professor of Anatomy* Hope Valley
- HICKMAN, FRANKLIN SIMPSON, (1927) A.B., S.T.B., A.M., Ph.D.  
*Professor of Psychology of Religion* 823 Buchanan Road
- HICKSON, ARTHUR OWEN, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of Mathematics* Legion Avenue, Tuscaloosa Forest

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\* Absent on leave, 1937-1938.

\*\* Resigned, February 28, 1938.

- HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.  
*Instructor in Chemistry* Woodridge Drive, Rockwood
- HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.  
*Instructor in Chemistry* 10 Powe Apartments
- HOLLINSHEAD, WILLIAM HENRY, (1931) B.A., M.S., Ph.D.  
*Associate in Anatomy* 1006 Urban Avenue
- HOLSCHER, EDWARD CHARLES, (1936) A.B., B.S., M.D.  
*Instructor in Orthopedics* Duke Hospital
- HOLTON, HOLLAND, (1912) A.B., J.D.  
*Professor of the History and Science of Education* 809 Watts Street
- HOOVER, CALVIN BRYCE, (1925) A.B., Ph.D., Litt.D.  
*Professor of Economics* 922 Urban Avenue
- HORACK, HUGO CLAUDE, (1930) Ph.B., LL.B., LL.D.  
*Professor of Law* 2021 Myrtle Drive, West Campus
- \*HUBBELL, JAY BROADUS, (1927) A.B., A.M., Ph.D.  
*Professor of English* Pinecrest Road
- IRVING, WILLIAM HENRY, (1936) B.A., B.A. (Oxon), M.A., Ph.D.  
*Professor of English* Legion Avenue
- JACOBS, JULIEN E., (1936) M.D.  
*Instructor in Orthopedics* Duke Hospital
- JEFFERS, KATHERINE R., (1937) A.B., A.M., Ph.D.  
*Instructor in Zoology* 1507 West Pettigrew Street
- JENSEN, HOWARD EIKENBERRY, (1931) A.B., A.M., B.D., Ph.D.  
*Professor of Sociology* 143 Pinecrest Road
- JOHNSON, MYCHYLE W., (1937) A.B., Ph.D.  
*Instructor in Zoology* 1119 Eighth Street
- JOHNSTON, CHRISTOPHER, (1930) A.B., M.D.  
*Assistant Professor of Medicine* 406 Watts Street
- JONES, ROBERT RANDOLPH, JR., (1930) A.B., M.D.  
*Assistant Professor of Surgery* 1105 Watts Street
- JORDAN, ARCHIBALD CURRIE, (1925) A.B., A.M.  
*Assistant Professor of English* Pinecrest Road, Corner U. S. Highway No. 751
- \*JORDAN, BRADY RIMBEY, (1927) Litt.B., Ph.D.  
*Professor of Romance Languages* 117 Pinecrest Road
- JOYNER, GEORGE W., (1932) B.S., M.D.  
*Instructor in Surgery* Duke Hospital
- KEECH, JAMES MAYNARD, (1931) A.B., A.M., Ph.D.  
*Instructor in Economics* Vineyard Street
- KEMP, MALCOLM D., (1937) M.D.  
*Associate in Clinical Psychiatry* Pine Bluff, N. C.
- KEMPNER, WALTER, (1935) M.D.  
*Associate in Medicine* Washington Duke Hotel
- KOHN, HENRY IRVING, (1937) A.B., Ph.D.  
*Instructor in Physiology and Pharmacology* 208 Buchanan Boulevard
- KORSTIAN, CLARENCE FERDINAND, (1930) B.S.F., M.F., M.A., Ph.D.  
*Professor of Silviculture* 908 West Markham Avenue

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\* Absent on leave, second semester, 1938-1939.



- KRAMER, PAUL JACKSON, (1931) A.B., M.Sc., Ph.D.  
*Assistant Professor of Botany* 2403 Englewood Avenue
- KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.  
*Professor of German* 2118 Englewood Avenue
- LONDON, CHARLES EDWARD, (1926) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 1001 West Trinity Avenue
- LANNING, JOHN TATE, (1927) A.B., A.M., Ph.D.  
*Assistant Professor of History* Hope Valley
- LAPRADE, WILLIAM THOMAS, (1909) A.B., Ph.D.  
*Professor of History* 1108 Monmouth Avenue
- LATTY, ELVIN REMUS, (1937), B.S., J.D., J.Sc.D.  
*Professor of Law* 2016 Wilson Street
- LEMERT, BEN FRANKLIN, (1930) B.Sc. in Bus. Admn., M.A., Ph.D.  
*Assistant Professor of Economic Geography* 15 Ambassador Apartments
- LEONARD, HENRY SIGGINS, (1937) A.B., A.M., Ph.D.  
*Assistant Professor of Philosophy* 606 N. Gregson Street
- LEWIS, LEROY, (1935) A.B., A.M.  
*Instructor in Public Speaking* 640 Club Boulevard
- LINEBARGER, PAUL MYRON ANTHONY, (1937) A.B., M.A., Ph.D.  
*Instructor in Political Science* 1700 Markham Avenue
- LOWNDES, CHARLES LUCIEN BAKER, (1934) A.B., LL.B., S.J.D.  
*Professor of Law* 2016 Club Boulevard
- LUNDEBERG, OLAV, (1931) A.B., A.M., Ph.D.  
*Associate Professor of Romance Languages* 1001 Lamond Avenue
- LUNDHOLM, HELGE, (1930) Fil. Kand., Fil. Lic., Ph.D.  
*Professor of Psychology* Rollins Apartments
- MACCARDLE, ROSS CLAYTON, (1937) B.S., Ph.D.  
*Instructor in Anatomy* 814 Forest Hills Boulevard
- MABRY, WILLIAM ALEXANDER, (1930) A.B., A.M., Ph.D.  
*Instructor in History* 703 Club Boulevard
- MAGGS, DOUGLAS BLOUNT, (1930) A.B., J.D., S.J.D.  
*Professor of Law* Hope Valley
- MANCHESTER, ALAN KREBS, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of History* Myrtle Drive, West Campus
- MARIA, ALFRED JOSEPH, (1935) B.S., A.M., Ph.D.  
*Visiting Assistant Professor of Mathematics* 814 Watts Street
- MARTIN, DONALD STOVER, (1932) A.B., M.D.  
*Assistant Professor of Bacteriology and Associate in Medicine* 2609 Chapel Hill Boulevard
- MARTIN, ELSIE WILSON, MRS., (1930) A.B., M.S.  
*Professor of Dietetics* 206 Faculty Apartments, East Campus
- MARX, WALTER, (1937) B.A., Ph.D.  
*Research Associate in Surgery and Biochemistry* Powe Apartments
- \*MAUGHAN, WILLIAM, (1931) B.S., M.F.  
*Associate Professor of Forest Management* 2409 Club Boulevard
- MAXWELL, WILLIAM CARY, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of German* 142 Pinecrest Road

---

\* Absent on leave, first semester, 1937-1938.



- MAYFIELD, MARIE MARCIA, (1935) B.A., Brevet d'Art de la Sorbonne  
*Instructor in Fine Arts* 406 Buchanan Boulevard
- McBRYDE, ANGUS, (1931) B.S., M.D.  
*Assistant Professor of Pediatrics* 1007 Homer Street
- McCAIN, PAUL PRESSLY, (1933) A.B., M.D.  
*Assistant Professor of Clinical Medicine* Duke Hospital and  
 Southern Pines, N. C.
- McCLOY, SHELBY THOMAS, (1927) A.B., M.A., B.A., B.Litt., Ph.D.  
*Instructor in History* 1208 Arnette Avenue
- McCREA, FOREST DRAPER, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Physiology and Pharmacology* 1023 Demarius Street
- McCULLOCH, THOMAS L., (1937) A.B., A.M., Ph.D.  
*Visiting Instructor in Psychology* 2205 Woodrow Street
- McDERMOTT, MALCOLM, (1930) A.B., LL.B.  
*Professor of Law* East Campus
- McDONALD, ALEXANDER DONALD, (1936) A.B., M.F.A.  
*Assistant Professor of Fine Arts* Woodridge Road
- McDOUGALL, WILLIAM, (1927) B.A., M.A., M.B., D.Sc., Litt.D.  
*Professor of Psychology* 303 Faculty Apartments, East Campus
- McLARTY, FURMAN GORDON, (1933) A.B., B.A., A.M., Ph.D.  
*Instructor in Philosophy* Hillsboro, N. C.
- MEIER, OTTO, JR., (1934) B.S. in E.E., E.E.  
*Instructor in Electrical Engineering* 903 Sixth Street
- MILES, EDWARD ROY CECIL, (1929) B.S., M.A., Ph.D.  
*Assistant Professor of Mathematics* 1028 Gloria Avenue
- MITCHELL, FRANK KIRBY, (1926) A.B., A.M.  
*Associate Professor of English* East Campus
- MORGAN, GEORGE ALLEN, JR., (1936) Ph.B., A.M., Ph.D.  
*Associate Professor of Philosophy* 1210 Vickers Avenue
- MORGAN, JASPER EUGENE, (1936) B.S., A.M., Ph.D.  
*Instructor in Roentgenology and Physiology* 622 Swift Avenue
- MOUZON, JAMES CARLISLE, (1932) B.A., Ph.D.  
*Assistant Professor of Physics* Pinecrest Road
- MUNYAN, MERRILL CALVIN, (1934) A.B.  
*Instructor in History* East Campus
- MYERS, HIRAM EARL, (1926) A.B., S.T.B., S.T.M.  
*Professor of Biblical Literature* 141 Pinecrest Road
- NELSON, ERNEST WILLIAM, (1926) A.B., A.M., Ph.D.  
*Associate Professor of History* Hope Valley
- NESTER, GARNETT ANNE, (1935) R.N., B.S.  
*Instructor in Nursing* Nurses Home
- NICHOLSON, WILLIAM McNEAL, (1935) A.B., M.D.  
*Associate in Medicine and Biochemistry* 1502 Florida Avenue
- NIELSEN, WALTER McKINLEY, (1925) B.S. in E.E., Ph.D.  
*Professor of Physics* 139 Pinecrest Road
- NORDHEIM, LOTHAR WOLFGANG, (1937) Ph.D.  
*Visiting Professor of Physics* 904 Buchanan Boulevard
- OLIVER, HENRY MADISON, (1937) A.B., A.M.  
*Instructor in Economics* 1601 Duke University Road

- OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.  
*Assistant Professor of Botany* University Drive, Rockwood
- ORGAIN, EDWARD STEWART, (1934) M.D.  
*Associate in Medicine and Physiology* 116 Faculty Apartments
- ORMOND, JESSE MARVIN, (1923) A.B., B.D.  
*Professor of Practical Theology* 301 Watts Street
- PATTERSON, KARL BACHMAN, (1920) A.B., A.M.  
*Assistant Professor of Mathematics* 1024 Monmouth Avenue
- PATTON, LEWIS, (1926) A.B., Ph.D.  
*Assistant Professor of English* 1511 W. Pettigrew Street
- PEARSE, ARTHUR SPERRY, (1926) B.S., A.M., Ph.D.  
*Professor of Zoology* Chelsea Circle, Hope Valley
- PEARSE, RICHARD LEHMER, (1935) A.B., M.D.  
*Instructor in Obstetrics and Gynecology* Duke Hospital
- PEPPLER, CHARLES WILLIAM, (1912) A.B., Ph.D.  
*Professor of Greek* 406 Buchanan Road
- PERLZWEIG, WILLIAM ALEXANDER, (1930) B.S., A.M., Ph.D.  
*Professor of Biochemistry* Hope Valley
- PERRY, HAROLD SANFORD, (1932) A.B., Ph.D.  
*Instructor in Botany* 1222 Sixth Street
- PERSONS, ELBERT LAPSLEY, (1930) A.B., M.D.  
*Associate in Medicine and Dermatology* Anderson Street
- PETRY, RAY C., (1937) A.B., A.M., Ph.D.  
*Assistant Professor of Early Church History* 1111 Oval Drive
- POSTON, MARY ALVERTA, (1930)  
*Instructor in Bacteriology* 512 Watts Street
- POTEAT, JAMES DOUGLASS, (1936) A.B., LL.B., J.S.D.  
*Professor of Law* 1015 Dacian Avenue
- POTEAT, MARY, (1935) A.B., A.M., Ph.D.  
*Instructor in English* 402 Buchanan Road
- PRATT, JOSEPH GAITHER, (1937) A.B., A.M., Ph.D.  
*Instructor in Psychology* Nation Avenue
- PROCTOR, ARTHUR MARCUS, (1923) A.B., A.M., Ph.D.  
*Professor of Education* Myrtle Drive, West Campus
- QUERY, RICHARD ZIMRI, JR., (1935) B.S., M.D.  
*Instructor in Medicine* Duke Hospital
- QUYNN, DOROTHY MACKAY, MRS., (1930) A.B., A.M., Docteur de l'Universite  
 de Paris Woodridge Drive, Rockwood
- QUYNN, WILLIAM ROGERS, (1930) B.A., M.A., Ph.D.  
*Assistant Professor of Romance Languages* Woodridge Drive, Rockwood
- RANEY, RICHARD BEVERLY, (1934) A.B., M.D.  
*Instructor in Orthopedics* Bland Apartments
- RANKIN, ROBERT STANLEY, (1927) A.B., A.M., Ph.D.  
*Professor of Political Science* Manchester Apartments
- RANKIN, WATSON SMITH, (1925) M.D.  
*Lecturer in Preventive Medicine and Public Health* Charlotte, N. C.

- RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.  
*Professor of Mathematics* 1011 Gloria Avenue
- RANSON, RUSSELL, (1934) B.S.  
*Instructor in Electrical Engineering* No. 2, Bickett Apartments
- RASMUSSEN, LESTER PAUL, (1937) B.A., M.D.  
*Instructor in Pediatrics* Duke Hospital
- RATCHFORD, BENJAMIN ULYSSES, (1928) B.S., A.M., Ph.D.  
*Assistant Professor of Economics* 2030 Englewood Avenue
- RAYMOND, MARY LOIS, (1931) A.B., M.A.  
*Instructor in Romance Languages* 1003 Lamond Avenue
- REED, FREDERICK JEROME, (1935) M.E., M.S.  
*Instructor in Mechanical Engineering* 2203 Englewood Avenue
- REEVES, ROBERT JAMES, (1930) A.B., M.D.  
*Associate Professor of Roentgenology* 1010 Monmouth Avenue
- RHINE, JOSEPH BANKS, (1927) B.S., M.S., Ph.D.  
*Professor of Psychology* 908 W. Club Boulevard
- ROBERTS, JOHN H., (1931) A.B., Ph.D.  
*Assistant Professor of Mathematics* Legion Avenue, Tuscaloosa Forest
- ROGERS, ROBERT S., (1937) A.B., A.M., Ph.D.  
*Professor of Latin* 1008 W. Trinity Avenue
- ROPP, THEODORE, (1938) A.B., A.M., Ph.D.  
*Instructor in History* Duke University
- ROSBOROUGH, RUSKIN RAYMOND, (1925) A.B., A.M., Ph.D., Docteur en  
 philologie classique, Louvain  
*Professor of Latin* 410 Watts Street
- ROSE, JESSE LEE, (1936) A.B., M.A.  
*Instructor in Latin* Powe Apartments
- ROSS, ROBERT ALEXANDER, (1930) B.S., M.D.  
*Associate Professor of Obstetrics and Gynecology* 818 Anderson Street
- ROWE, GILBERT THEODORE, (1928) A.B., S.T.D., D.D., Litt.D.  
*Professor of Christian Doctrine* 150 Pinecrest Road
- RUFFIN, JULIAN MEADE, (1930) B.A., M.A., M.D.  
*Associate Professor of Medicine* Anderson Street
- RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D.  
*Professor of Biblical Interpretation* 811 Vickers Avenue
- SANDERS, C. RICHARD, (1937) B.Ph., M.A., Ph.D.  
*Instructor in English* 1315 Vickers Avenue
- SANDERS, PAUL HAMPTON, (1936) A.B., LL.B.  
*Assistant Professor of Law* 3 Salmon Apartments
- SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.  
*Assistant Professor of Chemistry* 1604 B Street
- SCHUMACHER, FRANCIS X., (1937) B.S.  
*Professor of Forestry* 6 Sylvan Road
- SEELEY, WALTER JAMES, (1925) E.E., M.S.  
*Professor of Electrical Engineering* 1005 Urban Avenue
- \*SHANDS, ALFRED RIVES, JR., (1930) B.A., M.D.  
*Associate Professor of Surgery in Charge of Orthopedics* 812 Anderson Street

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\* Absent on leave, 1937-1938.

- SHEARS, LAMBERT ARMOUR, (1927) A.B., A.M., Ph.D.  
*Instructor in German* 917 Green Street
- SHERWOOD, MILDRED, (1930) R.N.  
*Instructor in Pediatrics* Nurses Home
- SHIELDS, JOHN HERMAN, (1926) A.B., A.M.  
*Assistant Professor of Accounting* 602 W. Chapel Hill Street
- SHRYOCK, RICHARD HARRISON, (1925) B.S. in Ed., Ph.D.  
*Professor of History* 1107 Watts Street
- SIMPSON, WILLIAM HAYS, (1930) A.B., A.M., Ph.D.  
*Instructor in Political Science* 1408 Dollar Avenue
- SMITH, BEVERLEY E., (1937) B.S., M.D.  
*Associate in Clinical Psychiatry* Pinebluff, N. C.
- SMITH, DAVID TILLERSON, (1930) A.B., M.D.  
*Professor of Bacteriology and Associate Professor of Medicine* Hope Valley
- SMITH, HILRIE SHELTON, (1931) A.B., Ph.D., D.D.  
*Professor of Christian Ethics and Religious Education* 1523 Hermitage Court
- SMITH, ROBERT SIDNEY, (1932) A.B., A.M., Ph.D.  
*Instructor in Economics* 2204 Wilson Street
- SMITH, RUTH SLACK, MRS., (1927) A.B., A.M.  
*Instructor in Education* 115 Faculty Apartments, East Campus
- SMITH, SUSAN GOWER, (1930) A.B., M.A.  
*Associate in Medicine* Hope Valley
- SPENCE, BESSIE WHITTED, MRS., (1929) A.B., A.M., B.D.  
*Instructor in Biblical Literature* Hope Valley
- SPENCE, HERSEY EVERETT, (1918) A.B., A.M., B.D.  
*Professor of Biblical Literature and Religious Education* Hope Valley
- SPENGLER, JOSEPH JOHN, (1934) A.B., M.A., Ph.D.  
*Professor of Economics* 1601 Lakewood Avenue
- SPONER, HERTHA, (1935) Ph.D.  
*Professor of Physics* 813 Second Street
- SPRINGER, JOHN YOUNG, (1936) A.B., M.B.A.  
*Assistant Professor of Economics* 907 Second Street
- SPRUNT, DOUGLAS HAMILTON, (1932) B.S., M.S., M.D.  
*Associate Professor of Pathology* Hope Valley
- STAYER, GLENN EMORY, (1935) A.B., M.D.  
*Instructor in Otolaryngology and Ophthalmology* Duke Hospital
- STERN, WILLIAM, (1934) Ph.D., LL.D.  
*Professor of Psychology and Philosophy* 205 Jones Street
- STILL, BAYRD, (1938) A.B., A.M., Ph.D.  
*Assistant Professor of History* Duke University
- STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.  
*Assistant Professor of Old Testament* 1107 Urban Avenue
- SUGDEN, HERBERT WILFRED, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of English* 201 Faculty Apartments, East Campus
- SWETT, FRANCIS HUNTINGTON, (1930) A.B., M.A., Ph.D.  
*Professor of Anatomy* Hope Valley
- SYDNOR, CHARLES SACKETT, (1936) A.B., Ph.D.  
*Associate Professor of History* 212 Watts Street

- TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.  
*Assistant Professor of Biochemistry and Toxicology*  
 University Drive, Rockwood
- THOMAS, JOSEPH MILLER, (1930) A.B., Ph.D.  
*Professor of Mathematics*  
 Legion Avenue, Tuscaloosa Forest
- THOMAS, WALTER LEE, JR., (1937) A.B., M.A., M.D.  
*Assistant Professor of Obstetrics and Gynecology*  
 Erwin Apartments
- THOMPSON, EDGAR T., (1935) A.B., A.M., Ph.D.  
*Assistant Professor of Sociology*  
 Cornwallis Road
- THOMSON, ROY BERTRAND, (1938) B.S., M.F.  
*Associate Professor of Forest Economics*  
 Duke University
- TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.  
*Instructor in Greek*  
 Duke University
- VANCE, MARY HENDREN, MRS., (1926) A.B., A.M.  
*Professor of English*  
 208 Watts Street
- VAUGHAN, WALTER WEDDLE, (1936) A.B., M.D.  
*Instructor in Roentgenology*  
 Faculty Apartments
- VOLLMER, CLEMENT, (1926) A.B., A.M., Ph.D.  
*Professor of German*  
 2114 Myrtle Drive, West Campus
- VON BECKERATH, HERBERT, (1935) Ph.D.  
*Professor of Economics and Political Science*  
 Hope Valley
- VOSBURGH, WARREN CHASE, (1928) B.S., M.S., Ph.D.  
*Professor of Chemistry*  
 2319 Englewood Avenue
- VOYLES, CARL, (1931) B.S.  
*Assistant Director of Physical Education, Trinity College*  
 2307 Club Boulevard
- WADE, WALLACE, (1931) A.B.  
*Director of Physical Education, Trinity College*  
 Myrtle Drive, West Campus
- WALTON, LORING BAKER, (1929) A.B., Lic. es L.  
*Associate Professor of Romance Languages*  
 1012 Green Street
- WANNAMAKER, WILLIAM HANE, (1904) A.B., A.M., Litt.D.  
*Professor of German*  
 Myrtle Drive, West Campus
- WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.  
*Assistant Professor of English*  
 Pinecrest Road
- WAY, VERNON ELGIN, (1930) A.B., A.M., M.A.  
*Assistant Professor of Greek*  
 909 Gregson Street
- WEBB, ALBERT MICAIAH, (1903) A.B., A.M.  
*Professor of Romance Languages*  
 1017 Trinity Avenue
- WELFLING, WELDON, (1936) A.B., A.M.  
*Instructor in Economics*  
 Corner Vineyard Street and Legion Avenue
- WEST, ALFRED THURBER, (1930) B.S., A.M.  
*Instructor in English*  
 1020 Monmouth Avenue
- WHITE, MARIE ANNE, MRS., (1930) A.B., A.M.  
*Assistant Professor of English*  
 Chelsea Circle, Hope Valley
- WHITE, NEWMAN IVEY, (1919) A.B., A.M., Ph.D.  
*Professor of English*  
 Chelsea Circle, Hope Valley
- \*WIDGERY, ALBAN GREGORY, (1930) B.A., M.A.  
*Professor of Philosophy*  
 St. Catherine, Pinecrest Road
- WILBUR, RALPH SYDNEY, (1933) B.S. in M.E., M.E.  
*Professor of Mechanical Engineering*  
 1317 Arnette Avenue

\* Absent on leave, first semester, 1937-1938.



- WILLIAMS, JAMES WESLEY, (1937) A.B., B.S.  
*Instructor in Civil Engineering* Southgate Dormitory
- WILSON, FREDERICK ELIPHAZ, (1923) A.B., A.M.  
*Assistant Professor of German* 1007 Urban Avenue
- WILSON, ROBERT NORTH, (1910) A.B., M.S.  
*Professor of Chemistry* 822 Third Street
- WILSON, ROBERT RENBERT, (1925) A.B., A.M., Ph.D.  
*Professor of Political Science* 717 Anderson Street
- WOLF, FREDERICK ADOLPHUS, (1927) A.B., A.M., Ph.D.  
*Professor of Botany* 924 Urban Avenue
- WOODHALL, BARNES, (1937) B.A., M.D.  
*Assistant Professor in Charge of Neuro-surgery* 2609 Chapel Hill Boulevard
- WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D.  
*Instructor in History* 2534 University Drive
- YATES, ANNE, (1933) A.B., A.M., Ph.D.  
*Associate in Biochemistry* Remie Road
- YOUNG, EDWARD HUDSON, (1923) A.B., A.M.  
*Assistant Professor of Romance Languages* 13 Beverly Apartments
- YOUNG, PAUL G., (1937) B.Ph., A.M.  
*Instructor in German* 1306 N. Mangum Street
- YOUNGSTROM, KARL A., (1937) A.B., M.A., Ph.D.  
*Instructor in Anatomy* 1910 University Drive
- ZENER, KARL EDWARD, (1928) Ph.B., A.M., Ph.D.  
*Associate Professor of Psychology* 416 Carolina Circle
- 
- BAKER, ELEANOR USSHER, (1930) A.B.  
*Instructor in English in School of Nursing* Duke Hospital
- BATCHELDER, MARION FRANCIS, (1930) R.N.  
*Instructor in Nursing Administration and Supervision* Duke Hospital
- CHAFFIN, NORA CAMPBELL, (1936) A.B., A.M.  
*Instructor (Part Time) in History* Bassett House
- DILL, ISABEL HUNTER, (1934) R.N., B.S.  
*Instructor in Principles and Practice of Nursing* Nurses Home
- DOW, MARIE, MME., (1934) L. es L., M.A.  
*Instructor (Part Time) in French* 205 Forest Wood Drive
- EPPERSON, JESSE HARRISON, (1930) B.S.  
*Instructor in Preventive Medicine and Public Health* Duke Hospital
- HINVES, EDITH, (1934) R.N.  
*Instructor in Nursing Supervision* Nurses Home
- MARTIN, WILLARD EDGAR, JR., (1937) A.B., A.M.  
*Instructor (Part Time) in English* 2109 Chapel Hill Road
- WATSON, KARL BRANTLEY, (1936) B.S., A.B., A.M.  
*Instructor (Part Time) in Education* 1007 W. Trinity Avenue

## INDUSTRIAL RESEARCH ASSOCIATES

- DARKIS, FREDERICK RANDOLPH Chemistry 1211 Alabama Avenue  
B.S., M.S., Ph.D., University of Maryland
- MCLEAN, RUTH Chemistry 4 Eloise Apartments  
A.B., Woman's College of the University of North Carolina; A.M., Duke University



## INSTRUCTIONAL ASSISTANTS

ADAMS, RAYMOND DELACY, (1936) B.A., M.A., M.D. <i>Assistant in Medicine</i>	Duke Hospital
BEAMER, CELESTINE, (1937) B.S. <i>Assistant in Physiology and Pharmacology</i>	Tuscaloosa Forest
BORLAND, ANDREW HOYT, (1934) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	804 Second Street
BRIDGERS, WILLIAM HENRY, (1936) B.S., M.D. <i>Assistant in Pathology</i>	Duke Hospital
BRYSON, EDWIN CONSTANT, (1931) <i>Assistant in Legal Aid Clinic</i>	Chapel Hill Road
CALDWELL, ELIZA, (1936) A.B., M.D. <i>Assistant in Medicine</i>	Duke Hospital
DEVINE, JOHN WILLIAM, JR., (1935) B.S., M.D. <i>Assistant in Surgery</i>	Duke Hospital
DILL, LESLIE VAN DYKE, (1937) B.S., M.D. <i>Assistant in Pathology</i>	Duke Hospital
FARMER, WILLIAM DEMPSEY, (1935) A.B., M.D. <i>Assistant in Otolaryngology</i>	Duke Hospital
FRASER, CLARENCE KENDALL, (1936) Ph.B., M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
HARRELL, GEORGE THOMAS, (1936) B.A., M.D. <i>Assistant in Pathology</i>	Duke Hospital
*JONES, JULIA MARY, (1936) B.A., M.D. <i>Assistant in Medicine</i>	Duke Hospital
JONES, JOHN WALTER, (1937) A.B., B.S., M.A., M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
KLEIN, JAMES RAYMOND, (1934) A.B. <i>Assistant in Biochemistry</i>	Duke Hospital
KONDRITZE, ALBERT, (1934) A.B., M.S. <i>Assistant in Biochemistry</i>	1003 Urban Avenue
LEVY, EDWARD DAVID, (1937) A.B. <i>Assistant in Biochemistry</i>	1022 West Trinity Avenue
MANNING, ISAAC HALL, (1937) A.B., M.D. <i>Assistant in Pathology</i>	Duke Hospital
MASON, MARY LOCHER, MRS., (1931) Diploma in Fine Arts, Teachers College, Columbia University <i>Assistant in Education</i>	1026 Gloria Avenue
MENEFEE, ELIJAH EUGENE, JR., (1936) B.S., M.D. <i>James A. Greene Research Fellow in Medicine and Bacteriology</i>	1910 University Drive
MICHEL, HARRY OSCAR, (1934) B.S. <i>Assistant in Clinical Biochemistry</i>	Duke Hospital
MILLER, CHARLES HENDERSON, (1934) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	Dixon Road
MUNROE, HENRY STOKES, JR., (1935) B.S., M.D. <i>Assistant in Surgery</i>	Duke Hospital

\* Resigned, December 31, 1937.

PARSONS, PHILIP BROWER, (1936) B.S., M.D. <i>Assistant in Pathology</i>	Duke Hospital
REISER, RAYMOND, (1936) A.B., Ph.D. <i>Fellow in Medicine</i>	Duke Hospital
*REUTER, ERNEST GEORGE, (1937) A.B., M.D. <i>Assistant in Roentgenology</i>	Duke Hospital
ROBERTS, LOUIS CARROLL, (1934) A.B., M.D. <i>Assistant in Surgery</i>	Duke Hospital
*ROSS, IRA STANLEY, (1936) A.B. <i>Assistant in Anatomy</i>	Duke Hospital
RUCKER, EDWIN MACRAE, (1934) A.B., M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
SCHIEBEL, HERMAN MAX, (1933) A.B., M.D. <i>Assistant in Surgery</i>	Duke Hospital
SCHLAYER, CLOTILDE, (1937) Ph.D. <i>Research Assistant in Medicine</i>	Washington Duke Hotel
SCHULZE, WILLIAM, (1936) B.S., M.D. <i>Assistant in Medicine</i>	Duke Hospital
SEALY, WILL CAMP, (1936) B.S., M.D. <i>Assistant in Pathology</i>	Duke Hospital
SEITZ, GIFFORD DE ALTON, (1934) B.A., M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
SHIPP, MARY ELIZABETH, (1932) A.B., M.A. <i>Research Assistant in Anatomy</i>	1104 Watts Street
STUBBS, ALSTON, (1935) A.B., LL.B., LL.M. <i>Assistant in Legal Aid Clinic</i>	1120 E. Main Street
TWADDELL, VERA CARR, MRS., (1931) A.B. <i>Assistant in Education</i>	707 S. Duke Street
UPCHURCH, SAMUEL E., (1933) B.A., M.D. <i>Assistant in Surgery</i>	Duke Hospital
*WELLS, WARNER LEE, (1936) A.B. <i>Assistant in Anatomy</i>	Duke Hospital
WILBUR, E. LLOYD, (1935) M.D. <i>Assistant in Pathology</i>	Duke Hospital
WILLIAMS, ROBERT, (1936) A.B., M.D. <i>Assistant in Medicine</i>	Duke Hospital
WISE, NANCY BOWMAN, (1937) A.B., M.D. <i>Assistant in Medicine</i>	Duke Hospital

#### INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION TRINITY COLLEGE

AYCOCK, THOMAS MALCOLM, (1937) B.S., M.S. <i>Assistant in Physical Education</i>	2602 Englewood Avenue
CALDWELL, HERSCHEL, (1930) <i>Assistant in Physical Education</i>	920 Buchanan Boulevard
CAMERON, EDMUND McCULLOUGH, (1926) A.B. <i>Assistant in Physical Education</i>	214 Swift Avenue
CARD, WILBUR WADE, (1902) A.B. <i>Assistant in Physical Education</i>	1110 Minerva Avenue
COOMBS, JOHN WESLEY, (1929) B.S. <i>Assistant in Physical Education</i>	101 House DD, Craven Quadrangle

\* Resigned, December 31, 1937.

CHAMBERS, ROBERT LUTHER, (1933) B.S. in Ed. <i>Assistant in Physical Education</i>	145 Pinecrest Road
CRICHTON, MARSHALL, (1931) <i>Assistant in Physical Education</i>	Hope Valley
DEAN, DAYTON ROBERT, (1931) A.B. <i>Business Manager of Athletics</i>	403 Union, West Campus
FOGLEMAN, WILLIAM HARRY, (1935) <i>Assistant in Physical Education</i>	2109 Chapel Hill Road
GERARD, KENNETH, (1931) B.S. <i>Assistant in Physical Education</i>	1209 N. Duke Street
HAGLER, ELLIS, (1930) A.B. <i>Assistant in Physical Education</i>	Vance Apartments, Dacian Avenue
LEWIS, HUBERT MURRY, (1937) B.S. <i>Assistant in Physical Education</i>	Duke University
PERSONS, WALTER, (1930) <i>Assistant in Physical Education</i>	West Campus
ROGERS, THOMAS, (1934) A.B. <i>Assistant in Football</i>	206 Watts Street
WARREN, ADDISON, (1931) A.B. <i>Assistant in Physical Education</i>	1013 Lamond Avenue

**INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION  
THE WOMAN'S COLLEGE**

BOOKHOUT, ELIZABETH CIRCLE, (1932) A.B., M.S. <i>Instructor in Physical Education</i>	12 Bickett Apartments
DOWLING, MARY LOUISE, (1937) B.S. <i>Instructor in Physical Education</i>	11 Trinity Apartments
LEWIS, MARTHA MODENA, (1933) B.S. <i>Instructor in Physical Education</i>	806 Third Street
WYCHE, ALMA VIRGINIA, (1930) A.B., M.S. <i>Instructor in Physical Education</i>	301 Erwin Apartments
<hr/>	
RAMSEY, SARAH WRAY, (1928) R.N. <i>Resident Nurse</i>	East Campus Infirmary
VESTAL, MOZELLE, (1931) R.N. <i>Resident Nurse</i>	East Campus Infirmary

**FELLOWS AND GRADUATE ASSISTANTS**

**UNIVERSITY FELLOWS**

Anderson, Marcia Lee A.B., Bryn Mawr College; A.M.,	English Duke University	2404 Club Boulevard
Brice, Ashbel Green A.B., A.M., Columbia University	English	05-C
Brown, James Wilson B.S., University of Maryland; A.M.,	Forestry Duke University	2110 Erwin Road
Burt, Everett Johnson, Jr. A.B., Berea College; A.M.,	Economics Duke University	1601 Duke University Road
Correll, Donovan Stewart A.B., A.M., Duke University	Botany	204 Epworth

Coy, Nettie Helena	Physics	118 Faculty Apartments
A.B., University of New Brunswick; A.M., Columbia University		
Culbreth, Sarah Elizabeth	Zoology	307 Watts Street
A.B., A.M., Duke University		
Fluegel, Edna Rose	Political Science	Brookings Institution
A.B., Marywood College; A.M., Duke University		
Garber, Paul Leslie	Religion	2114 Myrtle Drive
A.B., College of Wooster; B.D., Th.M., Louisville Presbyterian Theological Seminary		
Garren, Kenneth Howard	Botany	704 Buchanan Boulevard
A.B., A.M., Duke University		
George, Theodore Samuel	Mathematics	1026 Monmouth Avenue
B.S., Grove City College; A.M., Duke University		
Going, William Thornbury	English	212 Watts Street
A.B., University of Alabama		
Ligon, Edgar William, Jr.	Zoology	1004 Minerva Avenue
B.S., University of Richmond		
Moore, Eunice Martha	Chemistry	118 Faculty Apartments
B.S., Maryland College for Women; A.M., Johns Hopkins University		
Morton, Louis	History	213 Epworth
B.S., A.M., New York University		
Nelson, Melvin Frederick	Political Science	1411 B Street
B.S., Mississippi State College; A.M., Municipal University of Omaha		
O'Leary, James John	Economics	1000 Lamond Avenue
A.B., A.M., Wesleyan University		
Savely, Harvey Epperson, Jr.	Zoology	Route 1, Box 224
B.S., Mississippi State College		
*Taylor, Charles Theodore	Economics	201-Q
B.S., University of Arizona; A.M., Duke University		
Tilley, Nannie May	History	2313 Club Boulevard
A.B., Woman's College of the University of North Carolina; A.M., Duke University		
Vernillion, Herbert Edward	Chemistry	01-C
B.S., Monmouth College		
Wang, Yen-chieh	Forestry	704 Buchanan Boulevard
B.S., National Tsing Hua University; M.S., Cornell University		
**Ward, William Smith	English	302-B
A.B., Georgetown College; A.M., Harvard University		
Wilson, John Woodrow	Zoology	905 Monmouth Avenue
B.S., Duke University		

## GRADUATE ASSISTANTS

Ayers, John Carr	Zoology	1014 Lamond Avenue
A.B., Kalamazoo College; M.S., Kansas State College		
Barbour, William Johnston	Botany	150 Rosemary,
A.B., University of North Carolina		
		Chapel Hill, N. C.
Bennett, Georgia Belle	Psychology	1111 Urban Avenue
A.B., William and Mary College		

\* A.M. to be conferred June, 1938.

\*\* First semester only.

Bevel, Nelle Hester B.S., College of the Ozarks; A.M., University of Arkansas	Zoology	215 Faculty Apartments
Black, Henry Arnold B.S., A.M., Boston University	English	106 Epworth
Bolen, Claude Waldron A.B., Emory and Henry College; A.M., Duke University	History	201-Q
Boomhour, Elizabeth Gregory A.B., Meredith College; A.M., Cornell University	Botany	305 Faculty Apartments
Brach, Earl Tilton A.B., Duke University	Greek	1106 Chapel Hill Street
Bright, Robert Dietrich A.B., Dartmouth College	Chemistry	104-A
Bussell, Wilsie Florence A.B., Duke University	French	816 Watts Street
Christenson, James Andreas, Jr. A.B., Harvard College	Psychology	604 Gregson Street
Cooper, Gerald Rice A.B., Duke University	Chemistry	405 Gattis Street
Cox, Headley Morris, Jr. A.B., Duke University	English	213-CC
Doty, Roy A., Jr. A.B., Duke University	Education	2200 Chapel Hill Road
Douglass, Elinor Marie A.B., Duke University	English	Box 685, College Station
Duke, Kenneth Lindsay A.B., Brigham Young University	Zoology	905 Sixth Street
Dunsky, Irvin A.B., University of Newark	Sociology	221 Epworth
Ewing, Thomas Newell, Jr. A.B., DePauw University; A.M., Syracuse University	Psychology	2102 Englewood Avenue
Farley, John Thomas B.B.A., Manhattan College	Economics	West Campus
Feister, Irving A.B., Harvard University	Physics	201-B
Fischer, Monroe Carl A.B., Duke University	Economics	307-A
Flanders, Bertram Holland A.B., A.M., Emory University	English	1023 Gloria Avenue
Formwalt, John McClellan A.B., Carson-Newman College	Physics	222 Epworth
Foster, Hazel Elizabeth A.B., Hood College; A.M., Duke University	Political Science	102 Faculty Apartments
Fox, Theodore William A.B., Union College	Chemistry	201-B
Frey, Ellen Frances A.B., Barnard College	English	308 Faculty Apartments
Garrison, John Leland A.B., Duke University	English	2212 Erwin Road

Giesey, Jean Campbell A.B., Barnard College; A.M., Columbia University	Psychology	402 Buchanan Boulevard
Gilbert, Paul Wilner A.B., A.M., University of Rochester	Mathematics	210 Atlas Street
Guyton, Percy Love B.S., Mississippi State College; M.B.A., Northwestern University	Economics	901 Sixth Street
Herndon, Nettie Southworth A.B., A.M., West Virginia University	History	Faculty Apartments
Hodges, Carroll Broadus A.B., M.S., University of Oklahoma	Psychology	Erwin Road
Hopkins, John Isaac B.S., A.M., Duke University	Physics	411 Cook Street
Howie, Naomi A.B., Greensboro College	Religion	302 Faculty Apartments
Jester, Joseph Richardson B.S., Duke University	Botany	409 Gregson Street
Jones, John Sneed B.S., George Peabody College for Teachers; A.M., B.D., Vanderbilt University	Philosophy	1003 Trinity Avenue
Kirby-Smith, John Seldon B.S., University of the South; A.M., Duke University	Physics	209-L
Kuehner, Kenneth George A.B., Allegheny College; A.M., University of Pittsburgh	Education	916 Markham Avenue
Laverty, Carroll Dee A.B., A.M., University of Colorado	English	905 Sixth Street
Leath, James Milton A.B., Austin College; A.M., Southern Methodist University	Political Science	2003 Club Boulevard
Levenson, Morris E. A.B., M.Sc., New York University	Mathematics	1004 Minerva Avenue
Louis, William K. A.B., Duke University	History	105-CC
Luttrell, Everett Stanley B.S., University of Richmond	Botany	1004 Minerva Avenue
Mangrum, James Freed B.S., State Teachers College, Memphis, Tennessee; M.S., University of Tennessee	Zoology	411 Cook Street
Marston, Frederic Carver, Jr. A.B., Williams College	English	922 Sixth Street
Marston, Helen Mount A.B., Smith College	Mathematics	922 Sixth Street
Maryott, Arthur Allen A.B., Duke University	Chemistry	204-B
Miles, Ernest Percy, Jr. B.S., Birmingham-Southern College	Mathematics	1703 Erwin Road
Millar, Helen Mary A.B., McMaster University	Sociology	306 Faculty Apartments
*Miller, Howard Clifford A.B., Bridgewater College	Physics	

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\* Second semester only.



Miller, William Long B.B.A., University of Chattanooga	Economics	818 Sixth Street
Moody, Peter Richard A.B., Wofford College	English	107-A
Park, Robert DeForest A.B., Oberlin College	Physics	918 Urban Avenue
Peck, Robert Lawrence B.S., Duke University	Chemistry	819 Third Street
*Plantinga, Cornelius A. A.B., Calvin College; A.M., University of Michigan	Philosophy	1106 Chapel Hill Street
Rein, William Christopher A.B., Western Maryland College	Education	818 Sixth Street
Roney, William Hamilton A.B., Occidental College; A.M., University of Michigan	Sociology	914 W. Markham Avenue
Ryerson, Clifford Marten B.S., John B. Stetson University	Physics	710 Underwood Avenue
Seward, Donald Monfort A.B., John B. Stetson University; A.M., University of North Carolina	Mathematics	Route 1
Slay, James Matthew A.B., Duke University	French	010-V
Snyder, William Ulrich A.B., Gettysburg College	Psychology	1111 Urban Avenue
Stadthagen, Heinz A.B., Bethany College; A.M., Duke University	Economics	1114 Eighth Street
Stevenson, James Harold B.S., Westminster College; A.M., Oberlin College	Zoology	210 Epworth
Stuckey, James Morlan B.S., Centenary College; A.M., Duke University	Chemistry	01-C
**Wade, Luther Irwin A.B., Duke University	Mathematics	Dollar Avenue
Wharton, George Willard, Jr. B.S., Duke University	Zoology	1120 Erwin Road
White, Mary Rebecca A.B., Fairmont State Teachers College; A.M., Duke University	Latin	215 Faculty Apartments
Williams, Myra Allene A.B., Winthrop College; A.M., University of South Carolina.	Zoology	201 Watts Street
Wright, James Clyde A.B., Muskingum College	Psychology	1111 Urban Avenue
Young, DeWalt Secrist A.B., Cornell College	Chemistry	01-C

## GRADUATE SCHOLARS

Bagley, Mariana Dasch A.B., Duke University	History	308 Faculty Apartments
Bethel, James Samuel B.S., University of Washington	Forestry	814 Sixth Street
Brandis, Roland Buford, Jr. A.B., University of Richmond	Economics	814 Sixth Street

\* Second semester only.

\*\* A.B. to be conferred June, 1938.

Breslow, David Samuel B.S., College of the City of New York	Chemistry	307-C
Bruner, Jerome Seymour A.B., Duke University	Psychology	1101 N. Duke Street
Cain, Herbert Lloyd A.B., Southwestern	Greek	1012 Urban Avenue
*Carlton, John Buford B.S., University of Georgia	Forestry	1109 Erwin Road
Clay, Leo Roderick A.B., Lynchburg College	Psychology	509 Milton Avenue
Colloms, Lester Hubert A.B., Emory and Henry College; B.D., Emory University	Religion	1017 Gloria Avenue
Creegan, Robert Francis A.B., Marietta College; A.M., Duke University	Philosophy	818 Sixth Street
Doty, Cornelia Allen A.B., Stanford University; A.M., Mills College	Education	2200 Chapel Hill Road
Duehring, Frederica Elizabeth A.B., Duke University	History	307 Faculty Apartments
Flora, William Evans Sherlock A.B., College of Wooster	Political Science	207-C
Hargreaves, Herbert Walter A.B., University of Nevada; A.M., Clark University	Economics	914 Markham Avenue
Lamas, Petro Charles A.B., Emory University	Greek	1009 W. Trinity Avenue
MacInnes, Donald Boyer A.B., Linfield College	Philosophy	812 W. Main Street
*Morgan, Kenneth James B.S., Cornell University	Forestry	1636 University Drive
Morrison, Garrett Weir A.B., Kansas State Teachers College	Psychology	106 Epworth
Mountjoy, Marjorie A.B., Vanderbilt University	Latin	203 Faculty Apartments
Munster, Ralf Friedrich William A.B., Duke University	Political Science	206-C
Nakamura, Junichi Hiroshima University	English	806 Sixth Street
Nicholson, William Benjamin B.S., A.M., George Peabody College for Teachers	History	2016 Myrtle Drive
**Ostwalt, Jay Harold A.B., Davidson College	Education	512 Milton Avenue
Pohl, Herbert Ackland A.B., Duke University	Chemistry	012-V
Pratt, Lanier Ward A.B., Davidson College	French	213 Epworth
Putney, Anne Randolph Briscoe A.B., Farmville State Teachers College	Political Science	118 Faculty Apartments

\* First semester only.

\*\* Resigned, February 1, 1938.

Rawlings, Kenneth Winn	History -	05-C
A.B., Kentucky Wesleyan College; A.M., University of Kentucky		
Scarborough, Henry Baldwin	Physics	West Campus
A.B., Duke University		
Shaw, John Sidney	History	918 Urban Avenue
A.B., Duke University		
Singer, Armand Edwards	French	2102 Englewood Avenue
A.B., Amherst College		
Stabler, Carey Vitalis	History	2009 Pershing Street
B.S., A.M., University of Alabama		
Talbert, Robert Harris	Sociology	208 Buchanan Boulevard
A.B., B.S., Southeast Missouri State Teachers College; A.M., University of Missouri		
Thomas, Mary Elizabeth	History	306 Faculty Apartments
A.B., A.M., University of Arkansas		
Tobin, Catherine Elizabeth	Latin	302 Faculty Apartments
A.B., College of Charleston; A.M., Duke University		
Toole, Eben Richard	Forestry	704 Buchanan Boulevard
B.S., New York State College of Forestry at Syracuse University		

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 THE UNIVERSITY LIBRARIES

*BRANSCOMB, BENNETT HARVIE, A.B., B.A., M.A., Ph.D.	
<i>Director</i>	Hope Valley
LAND, WILLIAM GOODFELLOW, A.B., A.M.	
<i>Assistant Director</i>	Hope Valley

## GENERAL LIBRARY

BREEDLOVE, JOSEPH PENN, A.B., A.M.	
<i>Librarian</i>	407 Watts Street
LUND, JOHN JORGENSEN, A.B., Ph.D., Certificate in Librarianship	
<i>Head of Order Department</i>	1413 Watts Street
MALONE, EVA EARNSHAW, A.B., B.S.	
<i>Assistant Librarian in Charge of Cataloguing</i>	512 Watts Street
NUERMBERGER, GUSTAVE ADOLPH, A.B., A.M., Ph.D.	
<i>Head of Reference Division</i>	1601 Club Boulevard
PRATT, ELLIS CARL, A.B.	
<i>Acting Head of Circulation Division</i>	914 Sixth Street
BONNER, BERNICE, MRS.	
<i>Clerical Assistant in Acquisition Division</i>	515 S. Duke Street
BOYD, MARY ELIZABETH, A.B., B.L.S.	
<i>Assistant Reference Librarian</i>	216 Faculty Apartments, East Campus
BURCH, VELLA JANE, A.B., A.M., A.B. in L.S.	
<i>Cataloguer</i>	316 North Elizabeth Street
COBB, BERTHA ELIZABETH, A.B., B.A. in L.S.	
<i>Typist in Cataloguing Division</i>	1112 N. Duke Street
COVINGTON, LENA, A.B.	
<i>Assistant in Acquisition Division</i>	1008 Monmouth Avenue

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 \* Absent on leave, 1937-1938.

CREWS, SUDIE ELIZABETH <i>Assistant in Acquisition Division</i>	1004 W. Trinity Avenue
*DIENES, MARY, A.B., A.M. <i>Assistant in Acquisition Division</i>	806 Third Street
DUKE, LUCRETIA BURGESS, MRS. <i>Secretary to the Assistant Director</i>	905 Sixth Street
EVINS, SARAH ELFORD, B.S., B.A. in L.S. <i>Assistant in Charge of Exchange Catalogue</i>	216 Faculty Apartments
FAUCETTE, MARY ELIZABETH, A.B. <i>In Charge of Graduate Reading Room</i>	610 E. Trinity Avenue
FRAZIER, ROSE MARIE, B.S., B.M., A.B. <i>Cataloguer of Documents</i>	702 Buchanan Boulevard
GANTT, EVA GOLDIE, A.B. <i>Assistant in Acquisition Division</i>	520 S. Duke Street
GANTT, HAZEL ANN, A.B. <i>Junior Cataloguer</i>	520 S. Duke Street
GREEN, JANE, A.B., B.A. in L.S. <i>Assistant in Acquisition Division</i>	1004 W. Trinity Avenue
GUAGENTY, MARY CLEMENTINE, A.B., A.M. <i>In Charge of Chemistry Library</i>	1004 Monmouth Avenue
HELMAN, EUGENIE, MRS. <i>In Charge of Engineering Library</i>	1007 Glendale Avenue
**HEWITT, ANNE STROUD, MRS., A.B. <i>Secretary to the Director</i>	901 Mangum Street
HIX, EDWIN JONATHAN, A.B. <i>Assistant in Circulation Division</i>	Duke University Road
HOBBS, SARAH BLANCHARD, MRS., A.B., B.S. <i>Cataloguer</i>	Powe Apartments, Buchanan Road
IZARD, ANNE REBECCA, A.B. <i>Junior Cataloguer</i>	Chapel Hill Road
JAFFE, LILLIAN DOROTHY <i>Typist in Cataloguing Division</i>	704 Roxboro Street
JETT, FLORENCE LEIGH, A.B., A.B., in L.S. <i>Assistant in Acquisition Division</i>	1011 Monmouth Avenue
JOYNER, WILLIAM EPPIE, A.B. <i>In Charge of Reserve Book-Room</i>	Duke Station
KEEN, EUNICE, A.B., B.A. in L.S. <i>Cataloguer</i>	411 Cleveland Street
KLEIN, LENETTA GARRETT, MRS., Certificate in Librarianship <i>Cataloguer</i>	919 Second Street
LINEBERRY, FOY, A.B., B.A. in L.S. <i>Cataloguer</i>	Apartment 4, Eloise Apartments
MERRITT, GERTRUDE, A.B. <i>Assistant in Acquisition Division and Junior Cataloguer</i>	2 Bickett Apartments
MORGAN, KATHERINE, MRS., A.B. <i>In Charge of Physics Library</i>	622 Swift Avenue

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\* Resigned, January 31, 1938.

\*\* Absent on leave, 1937-1938.

MYERS, MILDRED FLORENCE, A.B., B.S. in L.S. <i>Cataloguer</i>	704 Buchanan Boulevard
NICHOLSON, JOHN BURTON, JR., A.B., A.M., B.S. <i>Assistant Reference Librarian</i>	702 Buchanan Boulevard
NUERMBERGER, RUTH KETRING, MRS., A.B., A.M., Ph.D. <i>In Charge of Manuscripts Department</i>	1601 Club Boulevard
OYLER, HELEN, A.B., B.S. in L.S. <i>Head Classifier</i>	704 Buchanan Boulevard
PARKER, WIXIE ELMA, A.B., B.S. in L.S. <i>In Charge of Periodical Department</i>	103 Erwin Apartments
POOLE, MARY ELIZABETH, A.B., B.A. in L.S. <i>Assistant Cataloguer of Documents</i>	Apartment 4, Eloise Apartments
RAMAGE, MARY ALLENE, A.B., B.A. in L.S. <i>In Charge of Newspaper Department</i>	1003 Monmouth Avenue
RICKARD, REBA COUSINS, MRS., A.B. <i>In Charge of Work Room</i>	1102 N. Duke Street
ROSE, ETHEL ABERNETHY, MRS., A.B. <i>Cataloguer</i>	603 Watts Street
SAVELY, BALSORAH PATTERSON, MRS., B.S. <i>In Charge of Biology Library</i>	R. F. D. No. 1, Durham, N. C.
*SEABOLT, RUTH, A.B. <i>Cataloguer</i>	14 Faculty Apartments, East Campus
SHARPE, NANCY ELIZABETH <i>Clerical Assistant in Acquisition Division</i>	1303 Lakewood Avenue
SHUFORD, MARY OPAL, A.B. <i>Typist in Catalogue Division</i>	805 Sixth Street
TATUM, WILLIAM GILCHRIST, JR., A.B. <i>Assistant in Periodical Department</i>	1200 College Road
THOMPSON, SARAH WRAY, A.B. <i>In Charge of Business Division of the Order Department</i>	208 Buchanan Boulevard
WESCOTT, MARY, A.B., B.S. <i>First Assistant in Cataloguing Division</i>	1008 Monmouth Avenue
WILKERSON, LULA HUNT, MRS. <i>Secretary to the Librarian</i>	813 Buchanan Road
WILLIFORD, ANNIE MAY, A.B., A.M., Ph.D. <i>Assistant in Manuscripts Department</i>	Faculty Apartments, East Campus
WOODALL, EVA AVERY, A.B. <i>In Charge of School of Religion Library</i>	1003 Monmouth Avenue
YOUNG, DORA DAPHNE <i>Typist in Cataloguing Department</i>	834 Mangum Street

## WOMAN'S COLLEGE LIBRARY

GRIGGS, LILLIAN BAKER, MRS., B.A. in L.S. <i>Librarian</i>	915 Monmouth Avenue
BALDWIN, GRAYSON, A.B., B.S. <i>Chief of the Circulation Department</i>	904 Vickers Avenue

\* Resigned, December 31, 1937.

HARRISON, EVELYN JENNINGS, A.B., B.S. in L.S. <i>In Charge of Cataloguing</i>	1008 Monmouth Avenue
HICKS, MRS. SPEARS, A.B., A.B. in L.S. <i>Chief of the Reference Department</i>	121 W. Seeman Street
MARTIN, CAROLINE, A.B., A.B. in L.S. <i>Cataloguer</i>	208 Watts Street
MONTGOMERY, MARGARET ELIZABETH, A.B. <i>Chief of Periodical Department</i>	205 Faculty Apartments, East Campus
TUDOR, FRANCES, A.B. <i>Assistant in Circulation Department</i>	207 Watts Street

## LAW LIBRARY

ROALFE, WILLIAM ROBERT, LL.B. <i>Librarian</i>	1109 N. Gregson Street
COVINGTON, MARY SIMMONS, A.B., LL.B. <i>Research Librarian</i>	Faculty Apartments
DAY, KATHERINE, B.S. <i>Assistant Cataloguer</i>	1 Bickett Apartments
LONG, MARIANNA, A.B., B.S. in L.S. <i>Head Cataloguer</i>	1008 Monmouth Avenue
MANGUM, HAZEL <i>Assistant in Order Division</i>	110 Buchanan Road
WALKER, ANNIE CARPENTER, MRS. <i>Secretary to the Librarian</i>	2121 West Pettigrew Street

## MEDICAL SCHOOL LIBRARY

FARRAR, JUDITH, A.B., B.S. <i>Librarian</i>	177 Faculty Apartments, East Campus
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## UNIVERSITY CHAPEL

HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D. <i>Preacher to the University</i>	Buchanan Road
RUSSELL, ELBERT, A.B., A.M., Ph.D. <i>Preacher to the University</i>	811 Vickers Avenue
BARNES, JAMES FOSTER, A.B., A.M. <i>Director of Choral Music</i>	703 Watts Street
BREES, ANTON <i>University Carillonneur</i>	1308 College Road
BROADHEAD, EDWARD HALL, A.B., A.M. <i>University Organist</i>	1001 Watts Street
CUNINGGIM, AUGUSTUS MERRIMON, A.B., B.A. (Oxon.), A.M. <i>Acting Director of Religious Activities</i>	West Campus

## PHYSICAL EDUCATION AND STUDENT HEALTH

SPEED, JOSEPH ANDERSON, M.D. <i>Director of Student Health</i>	913 Dacian Avenue
FLETCHER, JUNE THOMAS, MRS., A.B., M.D. <i>Physician, Woman's College</i>	



- WADE, WALLACE, A.B.  
*Director of Physical Education, Trinity College* West Campus
- GROUT, JULIA REBECCA, A.B., M.S.  
*Director of Physical Education, Woman's College*  
 104 Faculty Apartments, East Campus

## SOCIAL AND MUSICAL ACTIVITIES

- BARNES, EVELYN, B.S.  
*Assistant Social Director of the Woman's College,*  
*Head of Alspaugh House* Alspaugh House
- BARNES, JAMES FOSTER, MRS.  
*Director of the Woman's College Musical Clubs* 703 Watts Street
- CHAFFIN, NORA CAMPBELL, A.B., A.M.  
*Head of Bassett House* Bassett House
- FEARING, ROBERT BEVERIDGE  
*Director of the College Orchestras and Band* 703 Watts Street
- KESTLER, MARY, A.B., A.M.  
*Head of Jarvis House* Jarvis House
- MEADE, MARY E., A.B.  
*Head of Aycock House* Aycock House
- PEMBERTON, MARY NORCOTT, MRS.  
*Hostess, West Campus Union* Kilgo Quadrangle, West Campus
- TAYLOR, HARRIET, MRS.  
*Head of Giles House* Giles House
- UPCHURCH, WALTER MCGOWAN, JR., A.B., LL.B.  
*Financial Adviser, Student Activities* Faculty Apartments

## THE COLLEGES

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### GENERAL STATEMENT

Duke University offers in Trinity College and the Woman's College three academic degrees for undergraduate work: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Civil, Electrical, or Mechanical Engineering. Ten groups of studies lead to the degree of Bachelor of Arts, and two groups of studies lead to the degree of Bachelor of Science. These groups are designated by Roman numerals in the order in which they are described. For a description of these groups, see the section elsewhere in this catalogue under the topic "Groups of Studies for the Degree of Bachelor of Arts."

For a description of the groups of studies leading to the degree of Bachelor of Science, see the section elsewhere in this catalogue under the topic "Groups of Studies for the Degree of Bachelor of Science and Bachelor of Science in Civil, Electrical, or Mechanical Engineering."

### TRINITY COLLEGE

Trinity College is the undergraduate college for the men of Duke University and is situated on the West Campus along with the Graduate School of Arts and Sciences, the School of Law, the School of Medicine, the School of Nursing, the School of Forestry, and the School of Religion. The Division of Engineering is situated on the East Campus, apart from the Woman's College.

### THE WOMAN'S COLLEGE OF DUKE UNIVERSITY

The Woman's College of Duke University is a college of arts and sciences within the University which provides for the instruction of undergraduate women as Trinity College provides for the instruction of undergraduate men.

The teachers of the College, many of whom teach also in Trinity College, are members of the University Faculty and are selected in co-operation with the several departments of instruction just as in the case of teachers for Trinity College, thus assuring a uniform educational standard. Graduates of the Woman's College, as graduates of all other colleges and schools within the University, receive their degrees from Duke University.

The Woman's College offers the advantages of a separate college for women with its own distinct life and at the same time, through the close association with the larger University life, preserves some of the best features of co-education. It is the aim of the College to make it possible for a woman to take all of her work, if she so wishes, on the woman's

campus. However, all courses in the University are open to qualified women students, and they may enter courses given on the West Campus which are not given on the East.

### THE LIBRARIES

The Library resources of the University total 487,592 volumes and approximately 441,503 manuscripts. Fifty-five domestic and twenty foreign current newspapers, in addition to 2,796 current periodicals and journals, are received.

The General Library, in which the bulk of the collection is housed, is centrally located on the West Campus. The undergraduate reserve book-room on the main floor seats two hundred readers. In order to give students free access to the volumes placed here, the reserves are kept on open shelves. This room thus provides an undergraduate reading collection of approximately ten thousand especially selected volumes. The general reference room on the second floor contains about sixty-five hundred volumes of the most important reference works. Honors students and others undertaking special studies may be assigned carrels within the stacks to facilitate their work. Departmental libraries adjacent to the chemistry, physics, biology, and engineering laboratories are a special convenience for workers in these sciences.

The Woman's College Library contains all books for Freshman and Sophomore work, many books for more advanced study, and material for general reading. For research and for certain advanced courses the students use the University Library on the West Campus. An attractive feature of the Library is the Booklovers' Room, comfortably furnished, where on open shelves students may find the newest books in various fields. The University Art Collection is housed in the Library of the Woman's College.

# ADMISSION TO COLLEGE

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## GENERAL REGULATIONS

Admission to Trinity College and to the Woman's College of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. A personal interview with each applicant is regarded as desirable. This is of advantage not only to the Council but also to the applicant, since it enables him to acquaint himself to some extent with the University and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer \$5.00 additional for the privilege of matriculation.

Since the enrollment in the undergraduate college is limited, an early application is desirable. Application blanks will be sent upon request, and they should be returned as soon as possible.

*All correspondence relating to admission of men should be addressed to the Secretary of Duke University, Duke Station, Durham, North Carolina; and all correspondence relating to the admission of women should be addressed to the Committee on Admissions, College Station, Durham, North Carolina.*

## UNITS OF ADMISSION

The academic requirements for admission are defined in terms of units. A unit of credit is allowed for a subject of study pursued throughout an academic year at an accredited secondary school, if the course has demanded five recitations a week and the prescribed amount of work has been completed satisfactorily. Credit for fifteen units is required for admission.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

UNITS		UNITS	
English .....	4	Commercial Subjects .....	3
History and Social Studies.....	4	Agriculture .....	2
Latin .....	4	Household Economics .....	2
Mathematics .....	4	Mechanical Drawing .....	2
Spanish .....	3	Woodworking, Forging, and	
French .....	3	Machine Work .....	2
German .....	3	Art .....	1
Greek .....	3	Botany .....	1

	UNITS		UNITS
Chemistry .....	1	Physical Geography .....	1
Economics .....	1	Physics .....	1
General Biology .....	1	Sociology .....	1
General Science .....	1	Zoology .....	1
Music .....	1		

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

### ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least twelve of the fifteen units required for admission must come from the following:

	UNITS		UNITS
English .....	3 to 4	Mathematics .....	2 to 4
Foreign Language .....	2 to 6	Science .....	1 to 4
History and Social Studies....	1 to 4		

These twelve units must include three in English and two in mathematics. The units in mathematics must include one in algebra and one in plane geometry.

The three additional units necessary to make the required fifteen may come from the list above or from the larger table of units of admission.

### ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University are required to validate their units by entrance examinations and such other tests as the University may prescribe.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by examinations.

### ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions: all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect

more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester-hours of work approved for Seniors, with an average grade of "C," is required of all candidates for the Bachelor's degree.

Students enrolling for the Bachelor's degree who transfer from junior colleges or from four-year colleges not affiliated with the Southern Association, or a similar regional association, are under all circumstances required to continue for at least one semester in Trinity College and in the Woman's College the foreign language they present for minimum graduation requirements.

Students who have transferred from junior colleges or from four-year colleges not affiliated with the Southern Association, or a similar regional association, must present laboratory notebooks in all science courses that are offered for advanced credit.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year-courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer \$5.00 additional for the privilege of matriculating.

### FRESHMAN WEEK

The week immediately preceding the opening of college is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given, on the basis of which Freshmen are sectioned in English, mathematics, and foreign languages. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to the new environment. Attendance upon these exercises is required of all Freshmen.

### SPECIAL STUDENTS

Students of mature age may, upon approval by the Dean, be admitted as special students and allowed to enroll for such work as they are prepared to carry.



# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

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## GENERAL REGULATIONS

The requirements for the degree of Bachelor of Arts are designed to give the students such training in certain fundamental subjects as is essential for intelligent, educated citizens. The requirements also provide the opportunity for as wide an election as possible from courses of study which are both interesting and practically helpful in connection with vocations the students plan later to pursue.

Credit for one hundred and twenty-two semester-hours, on which an average grade of "C" must be made, is required for the degree of Bachelor of Arts in all groups. In addition to these requirements all candidates for the Bachelor of Arts must complete, with an average grade of "C" or better, physical education to the equivalent of six semester-hours. In Trinity College the physical education requirement is completed by the end of the Sophomore year; in the Woman's College, by the end of the Junior year.

The Faculty has authorized the groups of studies below for the guidance of students in selecting the work required for graduation. A student is free to choose any group he may desire. The several groups are designed to be of special value in a chosen profession and at the same time to provide a well-balanced course of study. With the approval of the Dean a student may at any time transfer from one group to another. In such transfers, work done in one group and not prescribed in the other will count as general elective credit, but all work prescribed in the new group must be completed before the student can be graduated.

No student is permitted to take less than fourteen semester-hours of work without special permission from the Dean; to take more than the normal load of work (fourteen to seventeen semester-hours) unless his average grade in the preceding semester is higher than "C"; or, under any conditions, to take more than nineteen semester-hours of work, exclusive of required physical education.

On or before the date announced for the spring registration every student is required to designate the group in which he plans to graduate and to arrange his program of courses for the ensuing year. All students, when choosing courses, are urged to seek the advice of instructors in whose departments they expect to receive instruction. No course card is valid until it has the approval of the Dean.

## SPECIAL REGULATIONS

The following special rules applying to the selection of courses are authorized by the Faculty:

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Arts

degree is limited to a maximum of thirty-six semester-hours; with the exception that a student whose principal work is in the Departments of English, Economics, or Romance Languages may be permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

Candidates for the degree of Bachelor of Arts whose courses of study permit may elect work from the following subjects: engineering, not to exceed eighteen semester-hours; forestry, not to exceed eighteen semester-hours. The courses elected in these departments must be those approved by the Council on Undergraduate Instruction as appropriate for the Bachelor of Arts degree and published in the *Bulletin of Undergraduate Instruction*. The classification of these courses, as they affect divisions of concentration and restricted electives, is left to the student's major adviser and to the Dean.

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

Not more than one course of six or eight semester-hours of credit in final fulfillment of the requirements for the degree of Bachelor of Arts in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

### MINIMUM UNIFORM REQUIREMENTS FOR ALL GROUPS

The following requirements are authorized for all groups:

	S.H.
English Composition* .....	6
Natural Science** .....	8
Economics, History, or Political Science*** .....	6
Religion .....	6

In addition to the above requirements, at least the third college year of a foreign language must be completed.\*\*\*\*

Of these minimum requirements, at least three courses, including English and foreign language, should be taken in the Freshman year, and

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\* This requirement is normally met by the completion of English 1 and 2. However, a Freshman who satisfies the Department of English of his superior ability in composition may substitute another English course for the normal requirement.

\*\* A student who does not present for entrance an acceptable unit of science must take sixteen semester-hours of science for graduation.

\*\*\* A student who does not present for entrance two acceptable units of history (exclusive of other social science work) must take history as his required work; otherwise, he may fulfill this requirement in any one of the three subjects.

\*\*\*\* Students who begin their language requirements in college are expected to follow the sequence of courses laid down by the department whose work they take and can omit only such course or courses as may be approved both by the department and the office of the Dean. Students who are granted the privilege of completing their language requirement by taking only six semester-hours in college must first pass, with at least a grade of "C," a special examination covering the work of the second college year. In addition, they must make at least an average of "C" on the work of the third college year. If a Freshman presents for entrance four units of Latin, he may satisfy his language requirements by taking either two years of Latin or two years of Greek.

all of them, except foreign language and religion, by the end of the Sophomore year.

The courses primarily open to Freshmen and the courses that will satisfy the requirements in history, science, and religion are listed under "Courses of Instruction."

## GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF ARTS

### GROUP I

#### GENERAL

This group is based on the traditional requirement for the degree of Bachelor of Arts. Students who choose it must complete the minimum uniform requirements for graduation; forty-two semester-hours in a division of concentration, exclusive of courses open primarily to Freshmen (in the Division of the Natural Sciences a maximum of eight hours of Freshman work is permitted in the forty-two hours mentioned above); twelve semester-hours of restricted electives in the other divisions; and free elective work sufficient to complete, with an average grade of "C," the one hundred and twenty-two semester-hours necessary for graduation. The departments of instruction, for purposes of concentration, are grouped in three divisions:

**Humanities:** English, Fine Arts, German, Greek, Latin, Music, Philosophy, Romance Languages.

**Social Science and History:** Economics, Political Science, Education, History, Religion, Sociology.

**Mathematics, Psychology, and Natural Science:** Botany, Chemistry, Geology, Mathematics, Physics, Psychology, Zoology.

The forty-two semester-hours in the division of concentration must be distributed as follows: eighteen to twenty-four semester-hours in a major department and eighteen to twenty-four semester-hours in at least two other departments of the same division with a minimum of six semester-hours in each department. The minimum number of hours required by the department for a major shall not include any course open primarily to Freshmen. Introductory courses above the Freshman level are to be counted or not at the discretion of the department concerned.

For purposes of concentration certain courses listed in the same department are considered as being in different departments; namely, courses in French, Italian, and Spanish. Likewise, courses in economics and business administration are reckoned as being in different departments. Also, a student taking his major work in English literature may count courses in English composition, dramatic technique, or public speaking as part of his related work in the same division.

The twelve semester-hours of restricted electives must be taken in one or both of the divisions not chosen for concentration, with a minimum of six semester-hours in any one department of these divisions.

Attention is called here to a special regulation governing all groups leading to the Bachelor of Arts degree which limits the amount of work a student, other than an Honors student, may take in any one department to a maximum of thirty-six semester-hours, with the proviso that a student whose principal work is in the Departments of English, Economics, or Romance Languages is permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

The remaining hours necessary for graduation, after the minimum uniform requirements, the division of concentration, and the restricted electives are satisfied, are open as free electives.

On or before the date announced for the spring registration every Sophomore in the General Group should designate his division of concentration and his major department, and arrange under the guidance of an instructor in the major department his program of studies for the following year. The student is at liberty to choose for his counsellor any instructor in his major department who teaches advanced courses. He should obtain the instructor's written approval of all courses selected in the division of concentration before submitting his program to the Dean for final action. In like manner, upperclassmen will recheck their courses in their divisions of concentration each year with representatives of their major departments.

## GROUP II

### BUSINESS ADMINISTRATION

This group is designed for students who enter college with the purpose of engaging in some form of business activity after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Economics 11, Mathematics 3-4.

Sophomore Year: Economics 51-52, 57-58, Political Science 61-62.

Junior Year: Economics 143, 138.\*

Senior Year: Economics 181-182, 203-204.

In addition to the courses specified above, a student in this group must elect twenty-one semester-hours from other courses in the Department. Six semester-hours of this elective work shall be selected from courses in the two-hundred group offered for Seniors and Graduates. With the permission of the Head of the Department students planning to take the examination to qualify as a Certified Public Accountant may be released from this requirement.

All elective work in economics must be approved in writing by some instructor offering advanced work in the Department.

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\* With the permission of the Department, students specializing in accounting may substitute for this course one in that subject.

### GROUP III

#### RELIGION

This group is designed for students who plan to enter the ministry or other religious work as a vocation after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Religion 1-2.

Sophomore Year: Religion (6 hours), Economics 51-52 or Political Science 61-62, English Literature (6 hours).

Junior Year: Religion (6 hours), Psychology 101 and either Psychology 102 or Philosophy 104.

Senior Year: Religion\* (12 hours), Sociology (6 hours), Philosophy (6 hours).

### GROUP IV

#### PRE-MEDICAL

Students qualifying for college graduation in this group must complete, in addition to the minimum uniform requirements, forty-two semester-hours in a division of concentration (subject to the regulations of the General Group), twelve semester-hours of restricted electives in one or both of the other divisions with at least six semester-hours in one department, and certain specific requirements as noted below. These specific requirements may count as part of the divisional concentration (if the division of concentration is the Natural Sciences) or they may count as restricted electives if another division of concentration is chosen. The foreign language should be German or French, preferably the former and including German 107-108.

The normal division of concentration for students electing this group is that of the Natural Sciences. However, the student may elect any one of the other two divisions for his divisional concentration. In this case, it may be necessary for him to complete more than one hundred and twenty-two semester-hours for his degree. If, however, the student chooses the Natural Sciences for his division of concentration, he is urged to take as much elective work as possible in the Divisions of the Social Studies and the Humanities.

Completion of English 1 and 2; Chemistry 1-2, 61-70, 151-152; Physics 51-52; and Zoology 1-2 will satisfy the minimum course recommendations of the Association of American Medical Colleges. Many medical schools advise the completion of additional courses in these and in other subjects. The premedical student should ascertain the requirements of the particular medical school that he expects to attend.

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\* Not more than six semester-hours of electives may be taken in the Department of Religion.



The following arrangement of the courses in science is suggested:

Freshman Year: Chemistry 1-2, Zoology 1-2, Mathematics 1-2 or 7-8.

Sophomore Year: Chemistry 61-70, Physics 51-52.

Junior Year: Chemistry 151-152.

## GROUP V

### COLLEGE TEACHING

This group is designed for students who plan to do work in a graduate school and teach in college. The required work consists of the minimum uniform requirements and the work specified below:

French and German through the second year of college work.\* Since one of these languages may be taken through the third year of college work to satisfy the minimum uniform requirements, only the one not taken thus must be chosen to meet the conditions of this group.

Twenty-four semester-hours of work in the major subject, exclusive of work in the subject offered primarily for Freshmen; twelve semester-hours of work in related subjects approved by the student's Departmental Adviser; twelve semester-hours in education, philosophy, and psychology, or in any one, not including any courses in secondary or elementary school methods.

Elective work, not to be taken in the major department, sufficient to complete the one hundred and twenty-two semester-hours necessary for graduation.

At least twelve semester-hours of the work taken in the Senior year must be in courses open only to Seniors and Graduates.

## GROUP VI

### PUBLIC SCHOOL TEACHING

This group is designed for two classes of students: (a) those who plan to teach in secondary schools; (b) those who plan to teach in elementary schools.

The required work consists of the minimum uniform requirements and the requirements listed under one of the classes below, according as the student expects to teach in a secondary school or in an elementary school.

#### CLASS A: SECONDARY SCHOOL TEACHING

Students in this class are required to take:

Eighteen semester-hours in education, of which three semester-hours may be in general psychology. The work in education must include three semester-hours in directed observation and practice teaching, three semester-hours in educational psychology, and three semester-hours in secondary education.

Six semester-hours, three each, in materials and methods, in two fields of high-school teaching.

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\* Greek or Latin may be substituted for either French or German.



Work in the subject matter of the two subjects the student intends to teach, sufficient to satisfy the minimum requirements as listed in the table below:

English, twenty-four semester-hours, to include the six of required work in composition, six in English literature, and six in American literature.

French, eighteen semester-hours, based on the usual two units for admission.

German, Spanish, and Greek, the same requirements as for French.

History, eighteen semester-hours, including six each in American, ancient and medieval, and modern European history, and six semester-hours of economics or political science. It is recommended to prospective teachers of history and related subjects that they take elective work in sociology, geography, and at least a semester each in economics and political science.

Latin, eighteen semester-hours based on the traditional four units for admission.

Mathematics, fifteen semester-hours.

Physical Education, twelve semester-hours.

Science, thirty semester-hours, including elementary courses in biology, chemistry, physics, and geography or geology.

A student may prepare to teach only one high-school subject by taking a major of twenty-four semester-hours in that subject (physical education excepted) in addition to the general required work in Class A, the required work in education and psychology, and the specifically required work in directed observation and materials and methods in the subject chosen.

Elective work sufficient to complete the one hundred and twenty-two semester-hours for graduation. It is recommended that the elective work be chosen in the two subjects the student is preparing to teach and in the Division of Social Science, provided the total amount of work taken in any department may not exceed the total allowed in Group I.

Students who are preparing to teach are warned to read carefully the certification rules of the state in which they are going to teach and to advise fully with the Dean before electing courses in subjects they are preparing to teach. They are further warned to take their professional courses in the order outlined by the Department of Education, reserving for their Senior year courses in materials and methods and in directed observation and practice teaching.

At least twelve semester-hours of the work in the Senior year must be in courses open only to Seniors or to Seniors and Graduates.

#### CLASS B: ELEMENTARY SCHOOL TEACHING

Students in this class conform to the general requirements of Group I. Education is treated as a major department, and the Social Science Division as the division of concentration. In addition to the general requirements of Group I, the following specific requirements must be met:

	S.H.
English .....	3 or 6
American History and Government .....	6 or 9
Geography .....	6
Physical Education and Hygiene .....	6

These special requirements are reckoned in each case as a part of the appropriate division of concentration. The student in Class B should take Education 8 in the first semester of his Freshman year and advise with the Department as to an appropriate course for the spring semester. In all other particulars his course follows the General Group for the first year.

The following arrangement of courses is recommended for Freshmen entering the Teaching Group. The work for the following years will be arranged by the Department of Education.

#### FRESHMAN YEAR

	S.H.
English .....	6
Foreign Language .....	6
Science .....	8
History or elective* .....	6
Education or elective** .....	6
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	32

#### GROUP VII

##### PRE-LEGAL

This group is designed for students who expect to study law after graduation. The required work consists of the minimum uniform requirements\*\*\* and the courses specified below.

The following arrangement of specified courses is recommended:

Freshman Year: Introductory Course in History (1-2 if taken in the Freshman year or 51-52 if taken thereafter).

Sophomore Year: Economics 51-52, Political Science 61-62.

Junior Year: Economics 143, History 105-106, Psychology 101, and either English 151 or 152.

Senior Year: Six semester-hours of Economics from courses approved for Seniors.

The electives should be chosen largely from the work offered by the following departments: Philosophy, Sociology, Economics, History, Psychology, and Political Science. The total work (required and elective) in any one department may not exceed thirty semester-hours.

At least twelve semester-hours of the electives in the Senior year must be Senior-Graduate courses.

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\* History is an alternate with economics or political science in the minimum requirements when the student presents two units of history for admission.

\*\* Students in Class B should take Education 8 the first semester and follow it with the course approved by the Department of Education the second semester; students in Class A follow the same plan or take any of the electives authorized for the General Group.

\*\*\* When there is overlapping, the minimum uniform requirements are accepted as a part of the special requirements in this group.

## GROUP VIII

### SOCIAL SERVICE

This group is designed for students who purpose after graduation to pursue professional studies in order to engage in practical social welfare work, such as family welfare, child welfare, public welfare, probation and parole, and similar forms of neighborhood and community work. The required work consists of the minimum uniform requirements and the courses specified below. Zoology is recommended for the required course in science.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: History 1-2.

Sophomore Year: Economics 51-52, Sociology 91-92 or Sociology 101.

Junior Year: Philosophy (6 hours), Political Science (6 hours), Psychology 101, Sociology (6 hours).

Senior Year: Economics (6 hours), Psychology (6 hours), Sociology (6 hours).

The electives should be chosen mainly from history, economics, political science, education, sociology, philosophy, psychology, and religion.

The subjects required for the Junior and Senior years may be transposed according to the courses available in any particular year.

## GROUP IX

### ACADEMIC-LAW COMBINATION

Students in either of the Liberal Arts Colleges of Duke University may complete in six years a combined course whereby they will receive their academic degree and also the degree of Bachelor of Laws. This arrangement is made possible under the following recommendations of the Faculty of the Arts Colleges:

Students who have completed with not less than a "C" average at least ninety-six semester-hours of undergraduate work, including both the minimum uniform and the specific requirements, in the Pre-Legal Group of studies in Duke University may on the approval of the Dean of the undergraduate college transfer to the Law School of Duke University and become eligible for the Bachelor's degree on the satisfactory completion of the full twenty-six semester-hours of work of the first-year class in this school.

It is understood that this provision shall apply solely to eligible Duke University undergraduates, and that not less than the full first-year's work of the Law School will be acceptable for credit towards the Bachelor's degree.

## GROUP X

## HONORS

*Purpose:* Students who have revealed their desire and demonstrated their ability to do a type of intellectual work higher than that normally required for the liberal arts degree may apply to read for Honors during their last two college years. The aim of the Honors studies is to permit qualified undergraduates to attain a knowledge, both comprehensive and intensive, of a particular field, or fields, under conditions most stimulating to individual initiative and independence.

*Departmental and Divisional Honors:* At present two distinct kinds of Honors work are available to qualified undergraduates: (1) departmental and (2) divisional. Several of the departments offer a Departmental Honors course, administered in each case by a Departmental Committee. It consists of tutorial and course work in the major department, combined with course work in related departments. The Divisional Honors course provides a means for the correlation of three subjects, one major and two minors, within a division of concentration (e.g., the Social Sciences) and is administered by a Divisional Committee. It consists of Honors readings with seminarial guidance and instruction largely or wholly independent of courses. The standard of achievement in both plans is the comprehensive examination at the end of the Senior year.

*Departmental Honors:* Honors courses are available to qualified students in the following departments: Botany, Chemistry, Education, English, French, German, Greek, History, Mathematics, Philosophy, Physics, Psychology, Religion, and Zoology.

An undergraduate wishing to qualify for Departmental Honors usually enters the General Group during the Freshman year. At the close of the Sophomore year he may apply to read for Honors in a particular department. The requirements for admission to candidacy for Honors vary in the different departments. The student should consult the special requirements set forth in the "Departmental Honors Program." The Departmental Committee determines the eligibility of the various applicants for Honors reading within the department.

Students transferring from other institutions of approved standing at the close of the Sophomore year may be admitted to candidacy for Honors. Those wishing to read for Honors who expect to transfer at the close of the Sophomore year should communicate with Dean W. K. Greene, Chairman of the College Council on Honors, not later than April 15.

The work required of students in the Departmental Honors Group consists of (1) the minimum uniform requirements; (2) the program of Honors for the Junior and Senior years; and (3) elective work sufficient to complete the semester-hours necessary for graduation.

Study in a Department Honors course always includes work in regular open courses. In both Junior and Senior years it may, and usually does, also include work under special instruction (seminarial or tutorial) and assignments of independent reading.

All candidates who complete satisfactorily the minimum uniform requirements, a Departmental Honors course, and elective work sufficient to earn the necessary hours for graduation will be recommended by the Departmental Committee to the Dean of the College for graduation with Honors.

For brief outlines of the various plans for Departmental Honors the student should see the section, "Departmental Honors Program," among the offerings of each department listed above. Students are also urged to consult the Honors Adviser of the department in which they are primarily interested. A list of these Advisers follows:

Botany: Miss Addoms  
Chemistry: Mr. Vosburgh  
Education: Mr. Holton  
English: Mr. Irving  
French: Mr. Webb  
German: Mr. Vollmer  
Greek: Mr. Pepler

History: Mr. Laprade  
Mathematics: Mr. Elliott  
Philosophy: Mr. Widgery  
Physics: Mr. Hatley  
Psychology: Mr. Zener  
Religion: Mr. Myers  
Zoology: Mr. Gray

*Divisional Honors:* Honors within a division of concentration are available to qualified students in one group of studies: economics (major), political science (major), and philosophy, in the Division of the Social Sciences.

A Divisional Committee, in consultation with the Chairman of the Council on Honors and with the departments concerned, determines the eligibility of the various applicants for Honors reading within this group. Prospective candidates for Honors in this group should see Mr. de Vyver, Chairman of the Divisional Committee for the Social Sciences (404 Library). Students desiring admission should make application not later than April 15.

Students who expect to transfer to Duke University at the end of their Sophomore year and who wish to read for Honors should communicate with Dean W. K. Greene not later than April 15.

*Economics, Political Science, and Philosophy:*

1. *Prerequisites:* Prospective candidates should have completed, if possible, the minimum requirements for graduation and have satisfied the following prerequisites (or their equivalents):

Economics 51-52.

Political Science 61-62.

2. *Program of Honors Readings:* During his Junior and Senior years, the student's program will consist of (1) seven semester units of Honors work and (2) four three-hour courses.

(a) The seven semester units of Honors work are distributed in the ratio of 3-2-2. That is, the student electing economics as his major subject will choose three readings in economics, two in political science, and two in philosophy. The student electing political science as his major will choose three in that subject, two in economics, and two in philosophy.

(b) The choice of the four three-hour courses is subject to the approval of the Divisional Committee.



The readings are scheduled as follows:

- (1) Junior Year: First semester: Economics and Political Science.  
Second semester: Economics and Philosophy.
- (2) Senior Year: First semester: Political Science and Philosophy.  
Second semester: Economics or Political Science.

3. *Content of Honors Readings:*

*Economics*

- (1) History of Economic Thought.
- (2) Social Economics.
- (3) American Economic Organization.

*Political Science*

- (1) Political Thought.
- (2) Comparative Government.
- (3) Government Regulation of Industry.

*Philosophy*

- (1) Ethics.
- (2) Social Philosophy.

4. *Thesis:* The Divisional Committee may require that a thesis in the major subject be submitted in lieu of the papers normally required in one of the Honors readings.

5. *Examinations:* At the end of the Junior year, the student will be required to write two comprehensive examination papers. At the end of the Senior year, he will be required to write four comprehensive examination papers. This written examination will be followed by an oral.



# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

## GENERAL REGULATIONS

The general regulations governing the requirements for the degree of Bachelor of Science are the same as those for the degree of Bachelor of Arts.

## SPECIAL REGULATIONS

The following special rules applying to the selection of courses are authorized by the Faculty:

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Science degree is limited to a maximum of thirty-six semester-hours; provided that a student whose principal work is in a department containing several sub-departments is permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

Not more than one course of six or eight semester-hours of credit in final fulfillment of the requirements for the degree of Bachelor of Science in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

## MINIMUM UNIFORM REQUIREMENTS FOR ALL GROUPS

The following requirements are authorized for all groups:

	S.H.
Economics, History, or Political Science*.....	6
English Composition** .....	6
French*** (second college year) .....	6-12
German*** (second college year) .....	6-12
Mathematics .....	6
Natural Science**** .....	16
Religion .....	6

\* A student who does not present for entrance two acceptable units of history (exclusive of other social science work) must take history as his required work; otherwise, he may fulfill this requirement in any one of the three subjects.

\*\* This requirement is normally met by the completion of English 1 and 2 or 4. However, a Freshman who satisfies the Department of English of his superior ability in composition may substitute another English course for the normal requirement. If a student fails to pass English 1-2 with a grade of "C" or better, he must complete three additional semester-hours of composition.

\*\*\* All candidates for the degree of Bachelor of Science must complete at least the second year of both college French and college German or their equivalent as determined by examination.

\*\*\*\* All candidates for the degree of Bachelor of Science must complete eight semester hours in each of two elementary sciences.

Of these minimum requirements, at least three courses, including English and foreign language, should be taken in the Freshman year, and all of them, except foreign language and religion, by the end of the Sophomore year.

The courses primarily open to Freshmen and the courses that will satisfy the requirements in history, science, and religion are listed under "Courses of Instruction."

## GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE

### GROUP I

#### GENERAL

Students who choose this group are required to complete the minimum uniform requirements for graduation; forty-eight semester-hours in the Division of Mathematics, Psychology, and Natural Science, of which not less than twenty-four nor more than thirty-two semester-hours may be taken in a major department (the hours prescribed in the major department may not include a course primarily open to Freshmen); and free elective work sufficient to complete, with an average grade of "C," the one hundred and twenty-two semester-hours necessary for graduation.

The student's major work must be in botany, chemistry, forestry, geology, mathematics, physics, psychology, or zoology.

Attention is called here to a special regulation governing all groups leading to the Bachelor of Science degree which limits the amount of work a student, other than an Honors student, may take in any one department to a maximum of thirty-six semester-hours, with the proviso that a student whose principal work is in a department containing any approved sub-departments is permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

On or before the date announced for the spring registration every Sophomore in the General Group should designate his major department in the division and arrange under the guidance of an instructor in the major department his program of studies for the following year. The student is at liberty to choose for his counsellor any instructor in his major department who gives advanced courses. He should obtain the instructor's written approval of all courses selected in the division before submitting his program to the Dean for final action. In like manner, upperclassmen will check their courses in the division each year with representatives of their major department.

### GROUP II

#### PRE-FORESTRY

This group of studies is designed for students who intend to pursue the study of forestry, particularly as a profession. The first three years are given largely to fundamental and auxiliary subjects basic to a proper understanding of the more specialized work in technical forestry, which

ordinarily requires two additional years to complete. The fourth year of this curriculum is devoted entirely to the first year of technical forestry. Upon the satisfactory completion of this 4-year pre-forestry curriculum a student is eligible for a Bachelor of Science degree from Duke University. With this basic preparation it is possible to obtain the professional degree of Master of Forestry in one additional year of work taken in the School of Forestry (see *Bulletin of the School of Forestry*).

In addition to the one hundred and twenty semester-hours required during the eight regular semesters, students in this group must, at the end of their Junior year, take twelve weeks of summer field work as outlined below. They must also present at least two units in either French or German before being admitted to candidacy within the Group and are advised, if possible, to present two units each in French and German. They must also take elementary economics as their required work in the social studies, and are therefore advised to present two high-school units in history.

The following arrangement of courses is recommended for students electing this group:

*Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Botany 1 .....	4	Botany 2 .....	4
Physics 1 .....	4	Physics 2 .....	4
English 1 .....	3	English 2 .....	3
Foreign Language .....	3	Foreign Language .....	3
	<hr/> 14		<hr/> 14

*Sophomore Year*

Chemistry 1 .....	4	Chemistry 2 .....	4
Mathematics 7* .....	3	Mathematics 8* .....	3
Religion .....	3	Botany 52 .....	4
Engineering Drawing 1 .....	2	Engineering Drawing 2 .....	2
Foreign Language .....	3	Foreign Language .....	3
	<hr/> 15		<hr/> 16

*Junior Year*

Botany 151 .....	4	Botany 156 .....	4
Geology 51 .....	4	Forestry 52 .....	2
Economics 51 .....	3	Economics 52 .....	3
Foreign Language .....	3	Foreign Language .....	3
	<hr/> 14	Religion .....	3
			<hr/> 15

Summer Field Work: 12 weeks to include Civil Engineering S110 (Plane Surveying), 3 s.h.; Forestry S150 (Forest Surveying), 5 s.h.; Forestry S151 (Forest Mensuration), 4 s.h., which are required for further work in forestry.

\* Students who do not qualify for Mathematics 7-8 may substitute Mathematics 1-2.

*Senior Year*

Forestry 211 .....	3	Forestry 212 .....	3
Forestry 251 .....	2	Forestry 224 .....	4
Forestry 253 .....	3	Forestry 252 .....	2
Forestry 259 .....	3	Forestry 264 .....	3
Forestry 261 .....	3	Forestry (Elective) .....	3
Forestry 273 .....	3		
	<hr/> 17		<hr/> 15

All elective courses must be selected in consultation with the Forestry Staff.

# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

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## GENERAL STATEMENT

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, or mechanical engineering, as a profession, and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E.

Each of these degrees requires one hundred and thirty-eight semester-hours of work of which one hundred and twenty-two must be completed with an average grade of "C." Six semester-hours of electives must be taken in the Departments of Economics or of Political Science. If a foreign language is elected, it must be taken two years unless a student has sufficient entrance credits to enable him to pursue a more advanced course.

Prospective students in engineering should note that immediately after the final Freshman examinations in May or June they are required to attend a three-weeks course in plane surveying given under the direction of the Summer School.

## ADMISSION TO ENGINEERING COURSES

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one-fourth of the annual amount of work regularly required in the school.

At least nine and one-half of the fifteen units required for admission must come from the following:

### *Required Units*

English .....	3 units
A Foreign Language .....	2 units
‡Science .....	1 unit
History .....	1 unit
*Algebra .....	1½ or 2 units
Plane Geometry .....	1 unit

### *Elective Units*

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

*Algebra (College Board "B") .....	½ unit
Solid Geometry .....	½ unit

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‡ Wherever possible, physics or chemistry should be offered for this requirement.

\* Examination required to validate offering.

*Trigonometry .....	½ unit
†German, French, Latin, Spanish, or Greek .....	1 to 4 units
History or Civics (not the required unit) .....	1 to 3 units
Physics, Chemistry, or Biology (not the required unit) .....	1 to 2 units

For other elective units, see the list of elective units acceptable for the A.B. degree.

Due to lack of uniformity in various states as to the subject matter covered by the various units in algebra and the consequent variation in the work done by Freshmen in advanced algebra, it has become necessary to adopt the College Entrance Examination Board's definition of these units and to require each prospective student to take a placement examination in algebra during Freshman Week. Students who validate by examination one and one-half units (algebra through quadratics, binomial theorem, and progressions) which are offered for admission or two units (algebra through quadratics, binomial theorem, progressions, simultaneous equations in three unknowns, graphs, exponents and radicals, and logarithms) will be placed in Mathematics 9-10 (5 hours a week, each semester). Those who validate by examination only one unit of the offering in algebra (i.e., to quadratics) will be placed in Mathematics 11-12 (6 hours a week, each semester). Those who do not validate by examination at least one unit of their offering in algebra will not be allowed to pursue a course in engineering. Certificates from the College Entrance Examination Board (431 W. 117th Street, New York) will be accepted in lieu of the placement examination. Prospective students may gain a general idea of the type of examination to be given here from old examinations of the College Board published by Ginn and Company, New York.

## GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

### GROUP I

#### CIVIL ENGINEERING

##### *Freshman Year*

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Mathematics 9 or 11 .....	5	Mathematics 10 or 12 .....	5
Drawing 1-5 .....	3	Drawing 2-6 .....	3
Physical Education .....		Physical Education .....	
	<hr/> 15		<hr/> 15

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

\* Examination required to validate offering.

† One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.



*Sophomore Year*

Mathematics 99 .....	4	Mathematics 100 .....	4
Physics 57 .....	5	Physics 58 .....	5
Surveying 11 .....	2	Mechanics 8 .....	5
Highways 15 .....	3	Elective (Restricted) .....	3
Elective (Restricted) .....	3	Physical Education .....	
Physical Education .....			
	<hr/>		<hr/>
	17		17

*Junior Year*

Strength of Materials 107 .....	4	Hydraulics 108 .....	4
Curves and Earthwork 113 .....	2	Curves and Earthwork 114 .....	2
Structures 131 .....	4	Structures 132 .....	4
Highways 117 .....	2	Materials 118 .....	2
Engineering, Elective .....	3	Engineering, Elective .....	3
Elective .....	3	Elective .....	3
	<hr/>		<hr/>
	18		18

*Senior Year*

Hydraulic Eng. 123 .....	4	Hydraulic Eng. 124 .....	4
Concrete 133 .....	3	Concrete 134 .....	3
Railroads 119 .....	3	Railroads 120 .....	2
Seminar 137 .....	1	Astronomy 112 .....	2
Electives .....	6	Seminar 138 .....	1
		Electives .....	6
	<hr/>		<hr/>
	17		18

**GROUP II**

**ELECTRICAL ENGINEERING**

*Freshman Year*

FIRST SEMESTER

SECOND SEMESTER

	S.H.		S.H.
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Mathematics 9 or 11 .....	5	Mathematics 10 or 12 .....	5
Drawing 1-5 .....	3	Drawing 4-6 .....	3
Physical Education .....		Physical Education .....	
	<hr/>		<hr/>
	15		15

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

*Sophomore Year*

Physics 57 .....	5	Physics 58 .....	5
Mathematics 99 .....	4	Mathematics 100 .....	4
Steam Engineering 85 .....	2	Mechanics 8 .....	5
Mechanism 81 .....	2	Electrical Engineering 52 .....	3
Electrical Engineering 51 .....	3	Physical Education .....	
Physical Education .....			
	<hr/>		<hr/>
	16		17

*Junior Year*

Theory of D. C. Circuits 151 .....	3	Theory of A. C. Circuits 152 .....	3
Electrical Circuits Laboratory 161 .....	1	Electrical Circuits Laboratory 162 .....	1
Strength of Materials 107 .....	4	Electrical Measurements 104 .....	3
Differential Equations 131 .....	3	Hydraulics 108 .....	4
Thermodynamics 187 .....	3	Thermodynamics 188 .....	3
M. E. Laboratory 199 .....	1	M. E. Laboratory 200 .....	1
Elective .....	3	Elective .....	3
	<hr/> 18		<hr/> 18

*Senior Year*

D. C. Machinery 155 .....	2	A. C. Machinery 258 .....	3
D. C. Mach. Laboratory 163 .....	1	Elec. Power Stations 158 .....	3
A. C. Machinery 257 .....	3	Communication 262 .....	4
Elec. Power Transmission 159 .....	3	Electrical Engineering 92 .....	3
Communication 261 .....	3	Elective .....	6
Seminar 165 .....	1		
Elective .....	6		
	<hr/> 19		<hr/> 17

**GROUP III****MECHANICAL ENGINEERING***Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Chemistry 1 .....	4	Chemistry 1 .....	4
English 1 .....	3	English 2 .....	3
Mathematics 9 or 11 .....	5	Mathematics 10 or 12 .....	5
Drawing 1-5 .....	3	Drawing 4-6 .....	3
Physical Education .....		Physical Education .....	
	<hr/> 15		<hr/> 15

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

*Sophomore Year*

Mathematics 99 .....	4	Mathematics 100 .....	4
Physics 57 .....	5	Physics 58 .....	5
Mechanism 81 .....	2	Mechanics 8 .....	5
Steam Engineering 85 .....	2	Elective (Restricted) .....	3
Constructive Processes 79 .....	2	Physical Education .....	
Elective (Restricted) .....	3		
Physical Education .....			
	<hr/> 18		<hr/> 17

*Junior Year*

Strength of Materials 107 .....	4	Machine Design 170 .....	3
Hydraulics 108 .....	4	Thermodynamics 188 .....	3
Thermodynamics 187 .....	3	Inter. Comb. Eng. 197 .....	3
M. E. Laboratory 189 .....	2	M. E. Laboratory 190 .....	2
Electrical Engineering 153 .....	3	Electrical Engineering 154 .....	3
Elective .....	3	Elective .....	3
	<hr/>		<hr/>
	19		17

*Senior Year*

Machine Design 171 .....	3	Industrial Eng. 192 .....	3
Power Plants 191 .....	3	M. E. Laboratory 194 .....	2
M. E. Laboratory 193 .....	2	Refrigeration 196 .....	2
Heating and Ventilation 195 .....	2	Aeronautics 198 .....	3
Seminar 173 .....	1	Seminar 174 .....	1
Electives .....	6	Electives .....	6
	<hr/>		<hr/>
	17		17

## COURSES OF INSTRUCTION

*Note: Courses primarily for Freshmen are numbered from 1 to 49; those primarily for Sophomores are numbered from 50 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and Graduates from 200 to 299. The amount of credit for each course is given in semester-hours following the description of the course.*

*The designation (w) or (E) indicates that the course is to be given on the West Campus or on the East Campus. The designation E means Engineering; L, Law; SR, School of Religion. When this designation precedes a course number, the course is not approved for graduate credit.*

*Odd-numbered courses are offered in the fall semester, and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must be continued throughout the year if credit is received.*

### COURSES OPEN PRIMARILY TO FRESHMEN

Botany 1-2	History 1-2
Chemistry 1-2	Latin 1-2, 3, 4, 15, 16, 41, 42
Economics 11	Mathematics 1-2, 3-4, 7-8, 9-10, 11-12
Education 4, 8	Physics 1-2
English 1-2	Political Science 21-22
Fine Arts 1-2	Religion 1-2
French 1-2, 3-4	Spanish 1-2, 3-4
German 1-2, 3-4	Zoology 1-2

### BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES;  
 ASSISTANT PROFESSOR KRAMER, SUPERVISOR OF FRESHMAN INSTRUCTION;  
 PROFESSOR WOLF; ASSOCIATE PROFESSOR HARRAR; ASSISTANT PROFESSORS ADDOMS\* AND OOSTING; INSTRUCTORS—ANDERSON AND PERRY; AND ASSISTANTS

**1. General Botany.**—An introduction to the structure and life-processes of seed plants. Laboratory, discussions, and field trips. Three two-hour periods. **4 s.h. (w & E)** STAFF

**2. General Botany.**—A survey of the plant kingdom with emphasis on reproduction, and an introduction to identification. Three two-hour periods. Prerequisite: Botany 1. **4 s.h. (w & E)** STAFF

**51. Growth.**—Experimental studies of the processes involved in growth, and the application of this knowledge to the growth and propagation of plants. Prerequisite: one year of botany. **4 s.h. (E)**

ASSISTANT PROFESSOR ADDOMS

**52. Plant Identification.**—Practice in the identification of local plants, especially flowering plants, and a study of the principles and rules underlying plant classification. Laboratory, lectures, and field trips. Prerequisite: one year of botany. **4 s.h. (w)** PROFESSOR BLOMQUIST

**55. Morphology and Anatomy of Vascular Plants.**—A comparative study of representative ferns and seed plants, including vegetative and reproductive structures. Prerequisite: one year of botany. **4 s.h. (w)**

ASSISTANT PROFESSOR OOSTING

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\* Absent on leave, second semester, 1938-1939.

**101. Principles of Heredity.**—The basic principles of heredity and their practical significance. Lectures, three hours; laboratory, two hours; conference (attendance optional), one hour. Laboratory work includes experimental breeding of the fruit fly. May be taken as a lecture course without laboratory. Prerequisite: one course in biology, botany, or zoology. High School or College Algebra recommended. 3 or 4 s.h. (w) DR. PERRY

**103. General Bacteriology.**—Prerequisite: one year of botany or zoology, or equivalent. 4 s.h. (w) first semester and (e) second semester. PROFESSOR WOLF

**104. The Structure and Identification of Lower Plants.**—A study of representative examples of the more important groups of algae, fungi, mosses and liverworts, including collection, identification and classification of common forms. Prerequisite: one year of botany. 4 s.h. (w) DR. ANDERSON

**151. Introductory Plant Physiology.**—The principal physiological processes of plants, including water relations, synthesis and use of foods and growth phenomena. Prerequisite: Botany 1, 2, or equivalent; one year of chemistry recommended. 4 s.h. (w) ASSISTANT PROFESSOR KRAMER

**156. Plant Ecology.**—The principal factors affecting plants and plant communities as they exist in different environments. Laboratory, lectures, and field trips. Prerequisites: Botany 1, 2 and 52, or equivalents. 4 s.h. (w) ASSISTANT PROFESSOR OOSTING

**202. Genetics.**—The principles of heredity, their cytological basis, and their bearing on other fields of biology. Laboratory work involves experimental breeding of the fruit fly and observations on the breeding of plants. Offered in alternate years. Prerequisites: one year of botany or zoology, or equivalent, and college algebra. 4 s.h. (w) DR. PERRY

**203. Plant Cytology.**—A study of the structure and organization of plant cells in relation to growth, reproduction, and especially heredity. Prerequisite: two years of botany. 4 s.h. (w) DR. ANDERSON

**204. Advanced Plant Anatomy.**—The structure of vegetative and reproductive organs of seed plants, including a consideration of seedling anatomy. Special reference is made to plants of economic importance. Offered in alternate years. Prerequisite: Botany 55 or equivalent. 4 s.h. (w) ASSISTANT PROFESSOR ADDOMS

[Not offered in 1938-39]

**216. Botanical Microtechnique.**—Studies in methods of preparing temporary and permanent microscopical slides; theory of staining; the use of the microscope, especially microscopical measurements; drawing, and photomicrography, botanical photography, and lantern slides. Prerequisite: three semesters of botany. 4 s.h. (w) DR. ANDERSON

**221. Structure and Classification of Fungi.**—Prerequisite: two years of botany. 4 s.h. (w) PROFESSOR WOLF

**225, 226. Special Problems.**—Students with adequate training may do special work in the following fields:

- a. Bacteriology, Mycology and Plant Pathology. PROFESSOR WOLF
- b. Cytology. DR. ANDERSON
- c. Ecology. ASSISTANT PROFESSOR OOSTING
- d. Genetics. DR. PERRY
- e. Morphology and Anatomy of Higher Groups.

ASSOCIATE PROFESSOR HARRAR, ASSISTANT PROFESSORS ADDOMS AND OOSTING

**f. Morphology and Taxonomy of Lower Groups.**

PROFESSOR BLOMQUIST AND DR. ANDERSON

**g. Physiology.**

ASSISTANT PROFESSOR KRAMER

**h. Plant Microchemistry.**

ASSISTANT PROFESSOR ADDOMS

**i. Taxonomy of Higher Groups.**

PROFESSOR BLOMQUIST

**252. Advanced Plant Physiology.**—The physico-chemical processes and conditions underlying the physiological processes of plants. Prerequisite: Botany 151, or equivalent; organic chemistry recommended. 4 s.h. (w)

ASSISTANT PROFESSOR KRAMER

**255. Advanced Taxonomy.**—A study of the historical background of plant taxonomy, modern concepts and systems of classification, nomenclatorial problems and the taxonomy of specialized groups. Prerequisite: two years of botany, including Botany 52, or equivalent. 4 s.h. (w)

PROFESSOR BLOMQUIST

**256. Field Ecology.**—An ecological survey of local vegetation, including theory and practice in the use of instruments for precise habitat studies, and analysis of community and successional relationships. Offered in alternate years. Prerequisites: Botany 1, 2, and 52, or equivalent. 4 s.h. (w)

ASSISTANT PROFESSOR OOSTING

[Not offered in 1938-39]

**FOREST BOTANY**

**224. Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1, 2. 4 s.h. (w)

PROFESSOR WOLF

**253. Dendrology.**—The characteristics, identification, and taxonomy of trees and shrubs with special reference to species native to North Carolina and other important forest regions of the United States. Studies of special groups included. Prerequisite: two years of botany. 4 s.h. (w)

ASSOCIATE PROFESSOR HARRAR

Related courses which may be counted toward a major in Botany.

**Zoology 110.**—Introduction to Genetics. 2 s.h. (w)

DR. JOHNSON

**DEPARTMENTAL MAJOR**

*Prerequisites:* Botany 1 and 2.

*Major Requirements:* Twenty-one to twenty-four hours of work including courses 52, 55, and 104. The remaining hours may be selected from any other courses in the Department for which the student is eligible, subject to the approval of the Departmental Adviser.

**DEPARTMENTAL HONORS PROGRAM**

**I. Prerequisites:** Botany 1-2. A year course in each of three other sciences acceptable to the Departmental Committee. Some of these may be taken concurrently with the Honors work.

**II. Honors Work.****a. Botany.**

**1. Scheduled courses.** At least 5 courses (18-20 semester-hours) beyond Botany 1-2.

**2. Reading Courses and Problems,** chiefly in the Senior year. Nine semester-hours. In addition to scheduled courses, each Honors student will take reading courses in such fields as History of Botany and Theories of Biology; or he may take reading courses in special fields; or he may undertake a special problem; or he may carry on both reading and a problem. This work will count as nine semester-hours and will extend through a year at least. The student



will report to his Adviser regularly for conference on this work. He may be asked to prepare written reports on the reading courses, and he must make such a report on his problem.

b. Philosophy—6 semester-hours.

c. Electives in botany or in other departments, subject to the approval of the Departmental Committee.

**III. General Honors Examination:** In the spring semester of the Senior year, each student must pass a general examination on the entire field of his Honors work. The Examining Committee consists of the Departmental Committee and such Advisers as have been concerned with his Honors work. The student must present a written report upon his problem and such written reports upon his reading as may be required, before he is permitted to take the general examination.

## CHEMISTRY

PROFESSOR GROSS, CHAIRMAN; PROFESSOR VOSBURGH, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR; INSTRUCTORS—BROWN, HILL AND HOBBS; AND ASSISTANTS

**1-2. General Inorganic Chemistry.**—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. It is desirable, though not required, that students taking this course shall have taken elementary physics either in high school or in college. One lecture, two recitations, and three laboratory hours, throughout the year. **8 s.h.** (w & E)

PROFESSOR WILSON AND DR. HILL WITH PROFESSOR GROSS; ASSISTANT PROFESSORS HAUSER AND SAYLOR; DRs. BROWN AND HOBBS; AND ASSISTANTS

**61. Qualitative Analysis.**—A study of the reactions of electrolytes in solution as applied to the qualitative analysis of mixtures of inorganic compounds. One lecture, one recitation, and six laboratory hours. Prerequisites: Chemistry 1-2 and algebra. **4 s.h.** (w)

PROFESSOR VOSBURGH; ASSISTANT PROFESSOR SAYLOR; DR. HOBBS; AND ASSISTANTS

**70. Quantitative Analysis.**—A study of the theory and technique of inorganic gravimetric and volumetric analysis. One lecture, one recitation, and six laboratory hours. Prerequisite: Chemistry 61. Analytic geometry and college physics are desirable but not required. **4 s.h.** (w)

PROFESSOR VOSBURGH; ASSISTANT PROFESSOR SAYLOR; DR. HOBBS; AND ASSISTANTS

**81. Introductory Food Chemistry.**—This course is an introduction to certain types of compounds which are necessary for an adequate diet, and includes a brief study of the fundamental organic compounds which are necessary for an understanding of the elementary study of foodstuffs. Prerequisites: Chemistry 1-2 or equivalent. Two lectures and three laboratory hours. **3 s.h.** (w)

PROFESSOR WILSON AND DR. BROWN

**142. Nutrition.**—A study of food materials, their composition, origin and values; the demands of the human body for growth, maintenance, and activity; dietary standards and the problem of feeding a family. Prerequisite: course 81 or its equivalent. Two recitations and three laboratory hours. **3 s.h.** (w)

PROFESSOR WILSON, DR. BROWN AND ASSISTANT

**151-152. Organic Chemistry.**—An introduction to the study of the compounds of carbon. Both the aliphatic and the aromatic series are dealt with, and the lectures are illustrated by selected laboratory experiments. Two lectures, one recitation, and three laboratory hours. Prerequisites: Chemistry 61 and 70. Course 151 is prerequisite for 152. 8 s.h. (w)

ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSOR HAUSER;  
DR. BROWN; AND ASSISTANTS

**153-154. Intermediate Chemistry Laboratory.**—Special laboratory exercises of a more advanced nature than given in courses 70 and 151-152. Required of candidates for Honors in chemistry and open to others with special permission of the Department. 2 or 4 s.h. (w)

ASSOCIATE PROFESSOR BIGELOW, ASSISTANT  
PROFESSOR SAYLOR, AND DR. BROWN

**173-174. Honors Seminar.**—One hour a week discussion based on assigned reading. Required of all candidates for Honors in chemistry in both Junior and Senior years. 2 s.h. (w)

PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR BIGELOW

#### FOR SENIORS AND GRADUATES

**215-216. Advanced Inorganic Chemistry.**—A study of modern theories of valence and molecular structure; also of inorganic compounds, particularly the less common types, and the colloidal state of matter, illustrated by suitable laboratory preparations. Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214 and ability to read German are desirable. 6 s.h. (w)

PROFESSOR VOSBURGH AND DR. HILL

**231. Instrumental Analysis.**—A study of the use of physical measuring instruments in chemical analysis. One lecture and six laboratory hours. Prerequisite: Chemistry 70. Laboratory physics is desirable. 3 s.h. (w)

PROFESSOR VOSBURGH; ASSISTANT PROFESSOR SAYLOR AND DR. HOBBS  
[Not offered in 1938-39]

**232. Advanced Quantitative Analysis.**—A continuation of course 70, including quantitative organic analysis. One lecture and six laboratory hours. Prerequisites: Chemistry 70 and 151-152. 3 s.h. (w)

PROFESSOR VOSBURGH, ASSOCIATE PROFESSOR BIGELOW,  
ASSISTANT PROFESSOR SAYLOR AND DR. HOBBS

[Not offered in 1938-39]

**241. Physiological Chemistry.**—A study of the chemistry of human physiology. Clinical aspects of the subject are treated with reference to the need of prospective medical students. Two recitations and six laboratory hours. Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. 4 s.h. (w)

PROFESSOR WILSON AND ASSISTANT

**242. Metabolism.**—Open to students who have completed course 241 or its equivalent, and who have a reading knowledge of German. Lectures and collateral reading deal with the probable fate of foodstuffs in the body, the nitrogen balance, energy requirement, nutritive ratios, vital factors, and ductless glands. The laboratory work consists mainly of blood analysis under both normal and pathological conditions. The laboratory or lectures may be taken separately. Two lectures, credit 2 s.h., and 6 laboratory hours, credit 2 s.h. 4 s.h. (w)

PROFESSOR WILSON AND ASSISTANT

**253-254. Advanced Organic Chemistry.**—A continuation of Chemistry 151-152, including discussion of the theories of organic chemistry. The laboratory work will include qualitative organic analysis, together with preparations of the more difficult type, requiring reference to the original

literature. Two lectures and 6 laboratory hours. Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. 8 s.h. (w)

ASSOCIATE PROFESSOR BIGELOW, ASSISTANT PROFESSOR HAUSER, AND DR. BROWN

**261-262. Physical Chemistry.**—Fundamentals of general theoretical chemistry illustrated by selected laboratory experiments. Two recitations and three laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent and Mathematics 7-8 or equivalent. Calculus is desirable but is not required. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. 6 s.h. (w)

PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR AND DR. HOBBS

**271. Introduction to Research.**—Lectures on the use of chemical literature, research methods, recording and publication of results, preparation of theses and other topics. One lecture. 1 s.h. (w)

PROFESSORS GROSS AND VOSBURGH, AND ASSOCIATE PROFESSOR BIGELOW  
[Not offered in 1938-39]

**273-274. Seminar.**—Required of all graduate students in chemistry. One hour a week discussion. 2 s.h. (w)

PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSOR BIGELOW;  
ASSISTANT PROFESSORS HAUSER AND SAYLOR;  
DRS. BROWN, HILL, AND HOBBS

**275-276. Research.**—The aim of this course is to give instruction in methods used in the investigation of original problems. It is open to Seniors who have had courses 70, 151-152, and who are taking 261-262. Nine hours a week and conferences. 3 or 6 s.h. (w)

PROFESSORS GROSS, VOSBURGH, AND WILSON; ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR;  
DRS. BROWN, HILL, AND HOBBS

#### DEPARTMENTAL MAJORS

A. For the degree of A.B.

*Prerequisites:* Chemistry 1-2, Mathematics 7-8 (or equivalent).

*Major Requirements:* Chemistry 61-70, 151-152 and 261-262. With the permission of the Department other Senior-Graduate chemistry courses giving a total of not less than 6 s.h. credit may be substituted for Chemistry 261-262.

B. For the degree of B.S.

*Prerequisites:* Chemistry 1-2, Mathematics 7-8 (or equivalent).

*Major Requirements:* Chemistry 61-70, 151-152; 261-262 and 3 to 6 s.h. of chemistry to be elected with the approval of the Department.

#### DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in chemistry the student must have completed the following courses:

Chemistry 61-70, Physics 1-2 or 51-52, Mathematics 7-8 (or equivalent), and either Mathematics 99 or Botany 1-2 or Zoology 1-2 or other courses in the Science Division satisfactory to the Department.

Candidates for Honors shall complete the following program of work:

Chemistry 151-152, 153-154, 173-174, 261-262 and 275-276; Physics (advanced) 6 s.h.; Mathematics through integral calculus; and 6 to 8 s.h. of course work in botany, geology or zoology, satisfactory to the Department, if not offered for admission to the Honors Group.

Chemistry 173-174 is a seminar for Honors students of both Junior and Senior years. The purpose is to give practice in the use of chemical literature and the oral presentation of assigned topics under the direction of a member of the Staff.

In Chemistry 275-276 an experimental research project is carried out under the direction of a member of the Staff. Selection of the problem for investigation is made by the student from a limited number of topics, with the approval of the Department. The object of the course is to acquaint the student with research aims and methods. If possible, an investigation of limited scope will be completed. Total credit for tutorial courses is 10 s.h.

A written report must be prepared on the research undertaken in Chemistry 275-276. A general examination in chemistry will be given at the end of each year.

### ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR GLASSON,\* CHAIRMAN; PROFESSOR HAMILTON, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DE VYVER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS HOOVER, SPENGLER, AND VON BECKERATH;  
ASSISTANT PROFESSORS BLACK, EITEMAN, LANDON, LEMERT,  
RATCHFORD, SHIELDS, AND SPRINGER; INSTRUCTORS—  
DELAPLANE, KEECH, SMITH, BERRY, OLIVER,  
AND WELFLING

The Department offers instruction in general economics, business administration, and accounting. The general course in economics affords a survey of the whole field of economic thought and lays the foundation for specialized study in various branches of the subject. Advanced courses are offered in theoretical and applied economics.

A special group of studies is provided for candidates for the Bachelor of Arts degree who are definitely looking forward to a business career at the conclusion of their college course. While this group is mainly composed of liberal rather than technical studies, it gives opportunity in the Junior and Senior years for specialized study in such subjects as money and banking, public and corporation finance, investments, railroad and water transportation, economic geography, marketing, insurance, industrial management, accounting, and business statistics.

#### ECONOMICS

**51-52. Principles of Economics.**—This course must be taken by all students planning to elect further courses in economics and business administration. **6 s.h. (w & f)** PROFESSORS HOOVER AND SPENGLER; DRs. DELAPLANE AND SMITH; MESSRS. BERRY, OLIVER, AND WELFLING

**103. Transportation.**—Essential features, problems, and competitive positions of rail, highway, water, and air transportation. Special attention is devoted to valuation, rates, and regulation as applied to railway transportation. Collateral reading and the preparation of papers are required. **3 s.h. (w)**  
ASSISTANT PROFESSOR LANDON

**107. Conservation.**—A study of the extent and distribution of our natural resources and their service in regional and national development. Emphasis will be placed upon both the natural and human factors involved in the genesis of current problems. Term reports dealing with problems of special interest to those participating will be considered. **3 s.h. (w)**  
ASSISTANT PROFESSOR LEMERT

**138. Business Statistics.**—A course in elementary statistics designed principally for students of economics and business administration. The material is also of interest to those specializing in engineering, forestry, political science, sociology, and other subjects. The course includes a study of statistical methods and their application. Very little algebra and no higher mathematics are required. Offered both semesters. **3 s.h. (w)**

ASSISTANT PROFESSOR SPRINGER, DRs. DELAPLANE  
AND SMITH, MR. WELFLING

\* Absent on leave, second semester, 1938-1939.



[Note: The attention of students who are taking, or who propose to take, courses 143, 144, or 158 is called to Mathematics 71, "Mathematics of Investment." This course is recommended as an elective for Sophomores or Juniors.]

**143. Corporation Finance.**—Principles and problems in the financial organization of corporations; the study of corporate securities, the management of capital, the distribution of earnings; industrial combinations; insolvency and reorganization. Required of Juniors in the Business Administration Group. Offered both semesters. 3 s.h. (w)

Special sections of Corporation Finance will be offered for students who have had Economics 57.

ASSISTANT PROFESSORS DE VYVER, EITEMAN,  
LONDON, DRS. DELAPLANE AND SMITH

**144. Investments.**—A study of the role which the security markets play in American economic life. Attention is devoted to the various types of securities, to the mechanics of their purchase and sale, to the factors which affect and determine their market prices, and to the relationship of stock speculation to the banking system and to general prosperity. Prerequisite: Economics 57-58 and 143. 3 s.h. (w)

ASSISTANT PROFESSOR EITEMAN

**169. Economics of Consumption.**—Economic problems of the family. Factors determining choice; commercial and legal standards for consumers' goods; consumer credit and co-operation; income and standards of living. 3 s.h. (E)

DR. SMITH

**187. Public Finance.**—This course deals with public expenditures, public revenues, public debts, and financial administration. 3 s.h. (w)

ASSISTANT PROFESSOR RATCHFORD

**203-204. Money, Banking, and Credit.**—After a preliminary study of monetary history and theory, together with an account of the development of credit instruments, there follows a more extended presentation of the theory and practice of banking. The first section of this course (*M.W.F., third period*) is limited to twenty-five graduates and Seniors of superior standing. 6 s.h. (w)

PROFESSOR GLASSON, ASSISTANT PROFESSOR RATCHFORD,  
AND MR. WELFLING

**215. Economic Systems.**—A study of alternative economic systems. In addition to an analysis of communism, anarchism, and the variants of socialism, the course will include a consideration of other proposed modifications of the existing economic order. 3 s.h. (w)

PROFESSOR HOOVER

(Admission only with the written consent of the instructor.)

**216. Economic Functions of the State.**—A consideration of the primary and secondary economic functions of government and of the legislation which provides for the performance of these functions, such as social legislation and the regulation of commerce and industry. 3 s.h. (w)

PROFESSOR HOOVER

(Admission only with the written consent of the instructor.)

**217. Business Cycles.**—Description and analysis of the causes and consequences of economic rhythms and movements of various lengths (e.g., seasonal, cyclical, long-period, etc.). Analysis of methods proposed as means of curtailing such movements, or of mitigating their effects. 3 s.h. (w)

PROFESSOR SPENGLER

**218. Population Problems and the Standard of Living.**—A critical survey of the economic laws of returns and of pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural

increase upon various classes of industry and upon employment; examination of the factors which govern population growth and of current population trends; analysis of international economic and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth-rates. 3 s.h. (w)

PROFESSOR SPENGLER

**230. Public Debts in the United States.**—A study of the characteristics of public credit as shown by the experience of national, state, and local governments in the United States. Topics considered include: forms, methods, and purposes of borrowing; effects of the contraction and repayment of debts on governmental fiscal policies, the banking and credit system, and business activity; methods of controlling or limiting debts; refunding and adjustment procedures; defaults and repudiations. 3 s.h. (w)

[Formerly 236.]

ASSISTANT PROFESSOR RATCHFORD

**231. The Economic History of Modern Europe.**—A study of the economic development of Europe since the sixteenth century, treating such topics as the guilds, mercantilism, money, banking, crises, the commercial revolution, and the industrial revolution. The rise of modern capitalism and the historical backgrounds of present economic problems will be emphasized. 3 s.h. (w)

PROFESSOR HAMILTON AND ASSISTANT PROFESSOR DE VYVER

**232. The Economic History of the United States.**—A study of the agricultural, industrial, commercial, and financial progress of the United States from colonial times to the present day. Special attention will be devoted to mass production, business cycles, great fortunes, and the relationships between government and business. 3 s.h. (w)

PROFESSOR HAMILTON AND ASSISTANT PROFESSOR DE VYVER

**233. State and Local Finance.**—A study of expenditures, taxation, and financial administration in state and local governments with emphasis on current problems. Special attention will be given to research methods and materials and to the financial relations between state and local governments. Prerequisite: Economics 187 or equivalent. 3 s.h. (w)

ASSISTANT PROFESSOR RATCHFORD

[Not offered in 1938-39]

**234. Federal Finance.**—A study of the expenditures, revenues, and financial administration of the government of the United States, with emphasis on current problems. Special attention given to budgetary procedure, corporate and individual income taxes, and the financial relations between federal and state governments. Prerequisite: Economics 187 or equivalent. 3 s.h. (w)

ASSISTANT PROFESSOR RATCHFORD

[Not offered in 1938-39]

**237-238. Statistical Methods.**—A study of statistical methods appropriate for dealing with problems in business and the social sciences. In addition to developing more thoroughly the subjects considered in *Business Statistics*, the following methods will be considered: simple, multiple, partial, and curvilinear correlation; curve fitting; probability; frequency distributions; and reliability of estimates. Prerequisite: Business Statistics 138 or consent of the instructor. 3 s.h. (w)

ASSISTANT PROFESSOR SPRINGER

**239. Prices.**—A theoretical study of the forces governing price behavior and an historical examination of the fluctuations, disparities, and trends of European and American prices, particularly in periods marked by acute monetary disorder or by rapid change in the stock of the precious metals. Special attention will be devoted to post-war inflation in France and Germany and to the world-wide collapse of prices after 1929. 3 s.h. (w)

PROFESSOR HAMILTON AND ASSISTANT PROFESSOR EITEMAN



**241-242. Value and Distribution.**—This course is a critical survey of the leading contemporary explanations of price formation and of the determination of interest, rent, wages, and profits. 6 s.h. (w) PROFESSOR SPENGLER

**245-246. Problems of Modern Industrialism.**—This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organization. External political and social forces are then introduced into the complex to show modern industrialism as a phase of mature capitalism. Against the background of modern capitalism, the issue and trends of public policy with respect to economic organization in America and Europe are compared and appraised. 6 s.h. (w) PROFESSOR VON BECKERATH

**253. Labor Problems.**—An examination of present-day labor problems followed by an intensive study of methods used by employers and workers in meeting those problems. 3 s.h. (w) ASSISTANT PROFESSOR DE VYVER

**256. Labor Legislation.**—A study of the relations of the state to labor problems with special reference to remedial legislation, and to interference in labor disputes. Prerequisite: Economics 253, or with the consent of the instructor. 3 s.h. (w) ASSISTANT PROFESSOR DE VYVER  
[Not offered in 1938-39]

**260. Social Insurance.**—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pensions, and health insurance for workers. Particular attention will be given to the present federal and state social security legislation. 3 s.h. (w) ASSISTANT PROFESSOR DE VYVER

**265. International Trade and Tariff Policies.**—An analysis of the theoretical principles underlying international trade with an historical study of the foreign trade and tariff policies of the United States, France, Germany, and England from the eighteenth century to the present. 3 s.h. (w) PROFESSOR VON BECKERATH

**266. International Finance.**—A study of the mechanism of international payment with attention to international movements of capital, the peculiarities of an inconvertible paper money regime, maldistribution of gold, exchange control, and related problems. 3 s.h. (w) PROFESSOR HAMILTON AND ASSISTANT PROFESSOR EITMAN

**268. Competitive versus Monopolistic Enterprise.**—(1) Competition as an economic order; (2) competition as a political order; (3) monopoly as a disturbance of (1) and of (2). (4) What can government do for the maintenance of the competitive order? (5) What can the judiciary do for the maintenance of the competitive order? (6) What can business do for the maintenance of the competitive order? (7) Limits and difficulties of a liberal solution; (8) Short discussion of different types of compromise solutions both in the governmental and the economic field. (Formerly 267.) 3 s.h. (w) PROFESSOR VON BECKERATH

## BUSINESS ADMINISTRATION

### A. ACCOUNTANCY

**57-58. Principles of Accounting.**—Elementary principles of single proprietorship, partnership, and corporation accounting. Supervised laboratory periods will be assigned. Section 8 (*T.T.S., third period*) is limited to twenty-five students and is designed primarily for pre-legal, engineering, and general group students. Business Administration students should not register for this section. 6 s.h. (w)

ASSISTANT PROFESSORS BLACK, DE VYVER, EITMAN, SHIELDS, AND SPRINGER; DR. KEECH

**171-172. Advanced Accounting.**—Advanced accounting theory and practice applied to the managerial problems of valuation and operation in corporations, consolidations, mergers, and liquidations. Open to students who have completed Accounting 57-58. 6 s.h. (w) ASSISTANT PROFESSOR SHIELDS

**173-174. Auditing, Theory and Practice.**—This course prepares the manager to investigate the operation of his own business, the prospective investor to determine the value of the proposition, the student to practice the public accounting profession. The first semester deals with detail and balance sheet audits and the second semester with special investigations. Problems, working papers, and reports. Students are admitted to the course by permission of the instructor. *For Seniors.* 6 s.h. (w)

ASSISTANT PROFESSOR BLACK

**175-176. C. P. A. Review.**—Thorough practice in classroom to prepare candidates for the Certified Public Accountant examination. The object is to train students to apply accounting principles and to work in classroom under substantially the same conditions as in the examination room. Practical accounting problems, auditing analysis, and theory of accounts. Students are admitted to the course by permission of the instructor. *For Seniors.* 6 s.h. (w)

ASSISTANT PROFESSOR BLACK

[Not offered in 1938-39]

**177. Income-Tax Accounting.**—A study of federal and state income-tax laws; problems in the preparation of tax returns and claims for refund. *For Seniors.* 3 s.h. (w)

ASSISTANT PROFESSOR SHIELDS

**178. Modern Accounting Systems.**—Systems and the forms for recording data of basic manufacturing industries, mercantile establishments, building and loan associations, and municipalities. Special attention will be paid to budgetary accounting. *For Seniors.* 3 s.h. (w)

ASSISTANT PROFESSOR SHIELDS

**275-276. Advanced Industrial Accounting and Management.**—This course traces the ways and means of executive control through statistics and industrial accountancy. Emphasis is put upon the economics of overhead costs. A complete practice set of cost accounting is worked by each student during the course. Courses 57-58 and 171-172 are ordinarily prerequisites for this course. 6 s.h. (w)

ASSISTANT PROFESSOR BLACK

#### B. COMMERCE AND INDUSTRY

**11. Economic Geography.**—A course in regional economic geography embracing the study of the world's major geographic regions, their present and potential production of food and raw materials for manufacture, and the relationships between these factors and the development of manufacturing industries, cities, and commerce. Required of Freshmen in the Business Administration Group. Either semester. 3 s.h. (w)

ASSISTANT PROFESSOR LEMERT

**105. Industrial Management.**—A study of the organization and management of industry, with emphasis upon the business applications of the principles developed. Problems of interrelations of functions operating in the several fields of management, such as production control, personnel, and the forecasting of business conditions. 3 s.h. (w)

MESSRS. BERRY AND KEECH

**115. Economic Geography.**—*This course is not open to students who have received credit for Econ. 11 (formerly B).* Required of all students in Teaching Group, Class B. The study of the interrelation of human activities and environmental elements. The discussion embraces location, maps and their interpretation, the major climatic regions, seasonal influences, weather, lands and their uses, soils and minerals, bodies of water, plants, animals, and the works of man as environmental factors. 3 s.h. (E)

ASSISTANT PROFESSOR LEMERT

**116. Economic Geography and Industrial Organization.**—*This course is not open to students who have received credit for Econ. 11 (formerly B).* Required of all students in Teaching Group, Class B. A study of the economic resources of the world: the products of the agricultural and manufacturing industries; trade routes and trade centers; the balance of trade and its relation to industrial development; and the influence of geographic factors on the commercial policy of nations. Prerequisite: course 115. 3 s.h. (E)

ASSISTANT PROFESSOR LEMERT

**118. Economic Geography of the South Atlantic States.**—A study of the agricultural, commercial, and industrial development, with special emphasis placed upon the development of manufacturing in the southern Appalachian Piedmont. This course is designed to serve not only teachers, but all others interested in the development of this region. Prerequisites: Economics 11, Economic Geography 115, or with consent of the instructor. 3 s.h. (W)

ASSISTANT PROFESSOR LEMERT

**158. Insurance.**—A study of (1) the economic services, (2) the important principles and practices, and (3) the principal legal phases of life, fire, health and accident, employers' liability, title, and credit insurance, and bonding companies. 3 s.h. (W)

MESSRS. KEECH AND BERRY

**168. Marketing.**—The fundamental principles of marketing. The topics covered include marketing functions, organization, and methods; financing marketing activities; price principles and practices; risk and speculation; co-operative marketing; regulation; and means for improvement. Collateral reading and the preparation of papers are required. 3 s.h. (W)

ASSISTANT PROFESSOR LONDON

**181-182. Business Law.**—The fundamental principles of law as applied to common business transactions. The topics presented are: contracts, agency, bailments, sales, negotiable instruments, partnership, corporations, and bankruptcy. Required of Seniors in the Business Administration Group. 6 s.h. (W)

ASSISTANT PROFESSOR SPRINGER

**184. Commercial Law for Accountants.**—A review and summation of commercial law principles as they apply to accounting theory and practice. Emphasis will be placed upon the commercial law sections of the Certified Public Accountant examinations. Students are admitted to the course by permission of the instructor. *For Seniors.* 3 s.h. (W)

ASSISTANT PROFESSOR BLACK

Attention is also called to Political Science 172, A Comparative Study of Agricultural Politics, and Political Science 164, Government Control of Railroads, which may appropriately be elected as related work.

*Note.* Freshmen, Advanced Freshmen, and Sophomores are not admitted to any courses in the Department numbered above 100.

#### DEPARTMENTAL MAJOR

**Prerequisites:** All students who desire to major in the Department of Economics are required to take as a prerequisite courses 51-52, Principles of Economics. Ordinarily this prerequisite work should be taken in the Sophomore year.

**Major Requirements:** Students who major in Economics are required to take twenty-four semester-hours of work in Economics in the Junior and Senior years. At least twelve semester-hours of this work must be chosen from Senior-Graduate courses offered in Economics. The remainder of the twenty-four hours may be chosen from courses offered in Economics for Juniors and Seniors. Students may elect six hours of Accounting and six hours in Commerce and Industry toward the completion of this requirement. The selection of courses should be approved by an appointed representative of the Departmental Faculty.

*Cognate Courses:* Six semester-hours of work from the following courses may be selected in partial fulfillment of the Senior-Graduate course requirement. These courses, however, may not be counted as part of the required twenty-four semester-hours of work in Economics.

Forestry 278. Economics of Forestry.

History 219-220. The History of the European Proletariat.

Political Science 207. American Constitutional Law and Theory.

Political Science 209. State and Local Governments in the United States.

Political Science 271. Sociopolitics and the Capitalistic System.

Sociology 219. Urban Sociology.

Sociology 220. Rural Sociology.

Sociology 227. Emigration and Immigration.

#### HONORS WORK

The Departments of Economics, Political Science, and Philosophy form an Honors group within the Division of the Social Sciences. For the details of this program the student should consult pages 55-56.

Honors readings in economics are as follows:

*History of Economic Thought:* A consideration of the principal economic writers showing the development of modern economic thought. MR. WELFLING

*Social Economics:* The problems of social adjustment to modern economic institutions. ASSISTANT PROFESSOR DE VYVER

*American Economic Organization:* The development and operation of the institutions of modern American capitalism. ASSISTANT PROFESSOR DE VYVER

#### EDUCATION

PROFESSOR HOLTON, CHAIRMAN; PROFESSOR PROCTOR, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR EASLEY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BROWNELL AND CHILDS; ASSOCIATE PROFESSOR CARR; INSTRUCTORS—SMITH, BARDEN,<sup>†</sup> AND WATSON;  
AND ASSISTANTS

Courses in the Department of Education are designed for two groups of students: (1) students with teaching experience or others who have definitely chosen teaching as their life-work, and (2) students who desire to study the school as an outstanding social institution.

Students who do not expect to teach but merely desire an understanding of the school as part of a liberal education are advised to elect such courses as 4, 8, 54, 104, and 105 for their introductory work in the Department and then to elect further work in accordance with their special interests. Students who expect to engage in the various phases of teaching should plan their courses in accordance with the general regulations for Groups V and VI as outlined in this catalogue. Students preparing for college teaching should elect courses in the history and philosophy of education and in educational psychology.

**1. Orientation Course in Study and Study Habits.**—A course for Freshmen whose high-school and other records indicate the need of help in working out a satisfactory method of study. The factors of study, the use of textbooks, note-taking from lectures and parallel readings, and applications of the factors of study to the daily problems of the student are among the matters considered. *Either semester.* 3 s.h. (W & E)

ASSISTANT PROFESSOR EASLEY AND MR. WATSON

<sup>†</sup> Instructor for first semester, 1937-1938.



**4. Introductory Course in History of Education.**—A special section of course 54, for Sophomores and for Freshmen who have had course 8. 3 s.h. (E)  
PROFESSOR HOLTON AND ASSOCIATE PROFESSOR CARR

**8. The Learning Process.**—A course in elementary educational psychology, required of all Freshmen and Sophomores entering Group V. *Either semester.* 3 s.h. (W & E)  
PROFESSORS BROWNELL AND CHILDS; ASSISTANT PROFESSOR EASLEY, AND MR. WATSON

**54. Introductory Course in History of Education.**—A study of the types of educational systems and institutions evolved in Western Europe and the United States as an introduction to current educational problems. 3 s.h. (W)  
PROFESSOR HOLTON

**58. The Learning Process.**—A special section of course 8, intended for Juniors. *Either semester.* 3 s.h. (E) *first semester* and (W) *second semester.*  
ASSISTANT PROFESSOR EASLEY

**68. Mental Hygiene of the School Child.**—A study of personality factors as related to the adjustment and success of the school child; the foundations of motivation; typical problems of maladjustment; social heredity and its educational implications; variations in intelligence. 3 s.h. (E)  
ASSISTANT PROFESSOR EASLEY

**83. Current Trends in American Public School Organization.**—A study of current controversies and criticisms bearing on the organization and administration of the public schools, recent developments in the organization of schools, and the theories underlying these developments. 3 s.h. (E) PROFESSOR PROCTOR

**101. Introduction to Teaching.**—A survey of the work of the teacher based upon a general theory of the learning and teaching process. Preliminary discussion of the qualifications and training of teachers and the nature and aims of education. Development of a theory of the curriculum; discussion of the nature of subject matter as related to pupil activity; modern classroom procedure in teaching, including an introduction to educational measurements. Old number 61. 3 s.h. (E)  
ASSOCIATE PROFESSOR CARR

**103. School Organization and Administration for the Classroom Teacher.**—*Either semester.* 3 s.h. (W) *first semester* and (E) *second semester.*  
PROFESSOR PROCTOR

**104. History of Education in the United States.**—A special section of course 214, intended primarily for Juniors. 3 s.h. (E) *first semester.*  
PROFESSOR HOLTON

[Not offered in 1938-39]

**105. Introduction to Educational Sociology.**—A study of social forces, processes, and values as affecting education, and the interaction of school and community. 3 s.h. (E)  
PROFESSOR CHILDS

**112. Methods of Teaching and Presentation of Subject Matter in the Primary Schools.**—A study of materials and methods in the primary school subjects with special reference to reading, language, number, and the social studies; introduction to the psychology of the primary school branches. A minimum of thirty laboratory periods of observation and practice-teaching. Prerequisite: course 101. *For Seniors only.* 4 s.h. (E)  
ASSOCIATE PROFESSOR CARR

[Not offered in 1938-39, unless as many as eight students enroll.]

**A. Public School Drawing.**—This course is open only to students who are attempting to meet certification requirements for a North Carolina primary- or grammar-grade certificate and does not carry credit toward a degree. *For Juniors and Seniors. Second semester. (3 points professional credit only.)* (E)

MRS. MASON

[Not offered in 1938-39]

**B. Industrial Art in the Public School.**—This course is open only to students who are attempting to meet certification requirements for a North Carolina primary- or grammar-grade certificate and does not carry credit toward a degree. *For Juniors and Seniors. First semester. (3 points professional credit only.)* (E)

MRS. MASON

**C. Public-School Music.**—This course is open only to students who are attempting to meet certification requirements for a North Carolina certificate and does not carry credit toward a degree. *For Juniors and Seniors. Second semester. (3 points professional credit only.)* (E)

MRS. TWADDELL

**115-116. Secondary Education: Principles and Practice.**—The study of the nature, scope, and methods of secondary education, emphasizing fundamentals of the teaching process and exemplifying theory by practice. Sixty hours of observation work and thirty hours of supervised practice teaching required. The course includes courses 106 and 116 as offered prior to 1935 and is not open for enrollment to students who have had either of those courses. Students preparing to teach in junior high schools are permitted to concentrate in the junior high school field. *Students must arrange their schedule to permit four hours of observation, conference, and practice teaching weekly. Since practice-teaching facilities are limited, students with superior record will be given preference in the practice teaching. No student who has not passed the work of the Junior year at Duke University with an average of at least one and one-half quality-points will be permitted to do practice work. Students who have the required average in quality-points must before February 1 pass with grade of "B" or better, examination in the subject they expect to teach, based upon course of study of the school in which they expect to do their practice teaching. Before entrance into practice-teaching students must complete thirty hours of observation under supervision. Their first five hours of practice must be satisfactory to the instructor directing observation and to the teacher of the class taught before they can continue the thirty hours of practice teaching required by the course. For Seniors only. 6 or 8 s.h. Section one (for teachers of English and foreign language). (E) Section two (for teachers of other subjects).* (W)

PROFESSOR CHILDS AND ASSISTANTS

**118. Educational Implications of Genetic Psychology.**—A course tracing the development of the individual through the stages of growth and learning, with emphasis upon early and later childhood; the development of such behavior patterns as play, language, etc.; the process of socialization; and similar material of especial significance to teachers in the elementary schools. *First semester. 3 s.h.* (W)

PROFESSOR BROWNELL

[Not offered in 1938-39]

**122. Methods of Teaching and Presentation of Subject Matter in the Grammar Grades.**—A study of materials and methods in the grammar grade subjects with special reference to reading, language, number, and the social studies; introduction to the psychology of the grammar grade branches. A minimum of thirty laboratory periods of observation and practice teaching. Prerequisite: course 101. *For Seniors only. 4 s.h.* (E)

ASSOCIATE PROFESSOR CARR

**131. Observation and Practice-Teaching.**—Open to Seniors who are enrolled in course 101. Separate work for primary and grammar grade teachers. *1 s.h.* (E)

ASSOCIATE PROFESSOR CARR



**136. The Teaching of High-School English.**—Identical with English 142. *For Seniors only.* 3 s.h. (w) ASSISTANT PROFESSOR A. C. JORDAN

**142. Children's Literature.**—Students enrolled will be allowed to specialize in literature of either the primary or grammar grades. *First semester.* 3 s.h. (E) ASSOCIATE PROFESSOR CARR

**155. The Teaching of Secondary School Latin.**—Identical with Latin 109. *For Seniors only.* 3 s.h. (w)

**170. The Social and Economic Position of Women.**—A course in vocational guidance for women counting as a general elective, but not as part of either a major or minor in Education or towards a North Carolina State teacher's certificate. The purpose of the course is to give the historical background of the changing social and economic position of women, the contributions made by outstanding women, and the vocational opportunities open to women. 2 s.h. (E) MRS. SMITH

**176. Materials and Methods in High-School Science.**—Discussion, based upon lectures and collateral reading, of such topics as aims, tests for values, the curriculum, classroom procedure, course and lesson planning in secondary school science. Prerequisite: at least eighteen hours of science in college. *For Seniors only.* 3 s.h. (w) PROFESSOR CHILDS  
[Not offered in 1938-39]

**200. Introduction to the Philosophy of Education.**—3 s.h. (w) PROFESSOR HOLTON

**205. Curriculum Problems in Secondary Education.**—A consideration of the aims and objectives of secondary school subjects, emphasizing practical problems of curriculum-making in the high school. *Second semester.* 3 s.h. (w) PROFESSOR CHILDS

**206. Sociological Foundations of the Secondary School Subjects.**—A consideration of the aims and objectives of secondary school subjects, emphasizing problems of curriculum-making. Prerequisite: general sociology or approved work in education, including course 105. 3 s.h. (w) PROFESSOR CHILDS  
[Not offered in 1938-39]

**207. Technique of Teaching.**—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. 3 s.h. (E) ASSOCIATE PROFESSOR CARR  
[Not offered in 1938-39]

**208. Mental Tests and Applications.**—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests, and training in the giving of individual tests. Prerequisite: course 258 or six semester-hours of other work in educational psychology or psychology. 3 s.h. (E) ASSISTANT PROFESSOR EASLEY

**209. Statistical Methods Applied to Education.**—A study of statistical methods of treating educational and social data designed to enable teacher or administrator to interpret and use the results of scientific investigations in education. 3 s.h. (w) ASSISTANT PROFESSOR EASLEY

**212. Psychology of the Elementary School Subjects.**—A study of the psychology of learning as applied to teaching the common-school subjects. 3 s.h. (w) ASSOCIATE PROFESSOR CARR

**214. History of Education in the United States.**—A study of the development of the American public school and the interaction of higher education and the public school. 3 s.h.  
PROFESSOR HOLTON

[Not offered in 1938-39]

**216. Psychological Principles of Secondary Education.**—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. 3 s.h. (w)  
PROFESSOR CHILDS

[Not offered in 1938-39]

**217. Advanced Educational Psychology.**—A systematic survey of the field of educational psychology, required of all majors in that field. 3 s.h. (E)

ASSISTANT PROFESSOR EASLEY

**218. Educational Implications of Genetic Psychology.**—Special section of course 118, intended primarily for graduate students, ordinarily not offered the same year in which 118 is given. Prerequisite: six semester-hours of psychology or educational psychology. 3 s.h. (E)  
PROFESSOR BROWNELL

**219. Experimental Education.**—This course is designed to provide training (1) in planning, (2) in prosecuting, and (3) in reporting quantitative investigations in the field of education, more especially in the field of learning and teaching the various school subjects. 3 s.h. (E)  
PROFESSOR BROWNELL

[Not offered in 1938-39]

**222. The Curriculum and Materials of the Elementary Grades.**—A study of curriculum problems in the elementary school. *First semester.* 3 s.h. (w)

ASSOCIATE PROFESSOR CARR

**S225. The Teaching of History and Civics.**—Identical with History 211. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (w)

ASSISTANT PROFESSOR MANCHESTER

**227. The Psychology of Learning: Problems.**—The major problems related to the learning process will be examined, with the experimental literature bearing on them. The curves of learning and forgetting, the distribution of practice, economical methods of learning, and the transfer of training will be the major topics considered. 3 s.h. (w)  
ASSISTANT PROFESSOR EASLEY

**228. The Psychology of Learning: Theoretical and Experimental.**—This is a continuation of course 227. In this semester the laws of learning, the most important explanatory principles, and the major systems of the psychology of learning will be considered. Class experiments will run throughout the semester. Prerequisite: course 227 or its equivalent. 3 s.h.

ASSISTANT PROFESSOR EASLEY

[Not offered in 1938-39]

**232. Elementary School Supervision.**—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. 3 s.h. (E)

ASSOCIATE PROFESSOR CARR

[Not offered in 1938-39]

**233. Administrative Pupil-Accounting.**—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and the making of reports. The study includes a consideration of individual differences, promotions, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests; and some practice in the computation of statistical measures. 3 s.h. (w)

PROFESSOR PROCTOR

**234. Secondary School Organization and Administration.**—A study of the outstanding problems of secondary school organization and administration other than the problem of gradation and classification of pupils. 3 s.h. (w)  
PROFESSOR PROCTOR

**237. Investigations in Reading.**—A summary of the results of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing diagnosis, and supervision; emphasis on problems requiring further investigation. *Second semester.* 3 s.h. (E)  
ASSOCIATE PROFESSOR CARR

**244. Studies in the Historical Development of Public School Administration.**—An advanced course devoted to the development of public school administration in the South, with especial reference to North Carolina as a type. 3 s.h.  
PROFESSOR HOLTON

[Not offered in 1938-39]

**246. The Teaching of Mathematics.**—Identical with Mathematics 204. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (E) PROFESSOR RANKIN

**247. Investigations in Arithmetic.**—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. *Second semester.* 3 s.h. (w)  
PROFESSOR BROWNELL

**253. Legal Phases of School Administration.**—A study of judicial decisions and the development of outstanding features of statute law controlling school administration, with special emphasis upon North Carolina materials. 3 s.h.  
PROFESSOR HOLTON

[Not offered in 1938-39]

**254. History of Secondary Education in the United States.**—A study of historical and comparative conceptions of the secondary school, changes in American life affecting the secondary school, present status of the secondary school, current tendencies toward expansion, and the problem of state and federal aid. *First semester.* 3 s.h. (w)  
PROFESSOR PROCTOR

**258. Educational Measurements.**—A critical study of the principles and techniques involved in measurement in education, with opportunity for individual research. Prerequisite: twelve semester-hours in the Department, including a course in educational psychology. 3 s.h. (E) PROFESSOR BROWNELL

**264. Recent Movements in American Education.**—An intensive study of educational thought and practice since 1900. 3 s.h. (w) PROFESSOR HOLTON

**266. The Teaching of High-School French.**—Identical with French 218. 3 s.h. (w) PROFESSOR WEBB

**294. Comparative Education: Recent Movements in European Educational Systems.**—A comparative study of the school systems of the principal countries of Europe, with emphasis upon changes since the World War. *First semester.* 3 s.h. (w)  
ASSOCIATE PROFESSOR CARR

## DEPARTMENTAL MAJOR

A major in the Department of Education consists of twenty-four semester-hours of work above the Freshman year, not including any work listed as primarily for Freshmen, and including at least six semester-hours of courses limited to Seniors or to Seniors and Graduates. Students, however, who obtain credit for courses 4 and 8 will be permitted to complete a major by taking twenty hours of additional work in the Department, provided twelve hours are courses limited to Seniors or to Seniors and Graduates. Before graduation, majors in the Department must have credit for at least one course in educational psychology, such as 8, 58, or 68, and one course in history and philosophy of education, or in educational sociology. The remainder of their work may be elected from courses listed for Sophomores, Juniors, and Seniors, and provided at least six semester-hours of the course work are taken from courses listed for Seniors and Graduates, and provided that not more than six semester-hours may be of courses numbered below 100.

## DEPARTMENTAL HONORS PROGRAM

I. *Prerequisites*: Completion of the Sophomore year in Group I, V, or VI of the "Groups of Studies for the Degree of Bachelor of Arts" with average of one and one-half quality-points per semester-hour, and an average of "B" or better in some one department in which the student has been enrolled within his first two years.

II. (a) Completion of the regular departmental major in the Department of Education as defined above (see Departmental Major). (b) Completion of fifteen semester-hours of work listed for Juniors and Seniors in not more than two departments approved by the Honors Adviser as related work. (c) Completion in the Junior year of three semester-hours of reading in the works of educational theorists, and study of current developments of their theories. This work will include selected reading in the history and theory of education under the direction of the Honors Adviser and should give the student an historical perspective of the development of educational theory and the origin of conflicting educational philosophies of the present. At the end of the Junior year the student will have written examination upon the Honors reading. (d) Completion in the Senior year of six semester-hours of reading in some field of education under the direction of the Honors Adviser. The fields from which the student may choose, subject to the approval of the Departmental Committee, are the following: Elementary Education, Experimental Education and Educational Psychology, History and Philosophy of Education, Public School Administration, Secondary Education, and Educational Sociology. This work will include the preparation of an essay showing an accurate and broad knowledge of what has been done and is in process of being done in the chosen field. (It is probable that reading courses will not be offered in all fields every year. Every candidate for Honors, therefore, should at the close of his Junior year confer with the Departmental Committee and make known his wishes as to which reading courses will be organized and offered in his Senior year.)

At the close of the Senior year the candidate will be given a general examination by the Departmental Committee and such other persons as it may designate, including the member in charge of the field in which the candidate is reading. This examination will cover the work the candidate has done in his Honors work and the related work of his Junior and Senior years.



## ENGINEERING\*

PROFESSOR HALL, DIRECTOR; PROFESSOR BIRD, CHAIRMAN CIVIL ENGINEERING;  
 PROFESSOR SEELEY, CHAIRMAN ELECTRICAL ENGINEERING; PROFESSOR WILBUR,  
 CHAIRMAN MECHANICAL ENGINEERING; INSTRUCTORS—CHAPMAN,  
 MEIER, RANSON, REED, AND WILLIAMS.

## GENERAL ENGINEERING

1. **Engineering Drawing.**—Orthographic projection, lettering, pictorial representation, developments, intersections, use of universal drafting machine. Six laboratory hours. 2 s.h. (E) STAFF

2. **Engineering Drawing.**—For students in civil engineering and forestry. Methods of plotting, topographic symbols, simple structures in wood and steel. Six laboratory hours. Prerequisite: course 1. 2 s.h. (E) STAFF

4. **Engineering Drawing.**—For students in electrical and mechanical engineering. Elementary machine drawing. Six laboratory hours. Prerequisite: course 1. 2 s.h. (E) STAFF

5-6. **Descriptive Geometry.**—Problems relating to point, line, plane, and solid. Concurrent with courses 1 and 2-4. No credit given unless taken for two semesters. One recitation, three laboratory hours. 2 s.h. (E) STAFF

8. **Mechanics.**—Concurrent forces, parallel forces, non-concurrent and non-parallel forces, centroids, friction, moment of inertia, translation, rotation, work, energy, and momentum. Prerequisites: course 1 and Mathematics 99. 5 s.h. (E) STAFF

107. **Strength of Materials.**—Elastic bodies under stress; flexure of simple, overhanging, fixed, and continuous beams; columns; combined stresses; etc. Three recitations, three laboratory hours. Prerequisite: course 8. 4 s.h. (E) STAFF

108. **Hydraulics.**—Hydrostatics; flow of water through orifices, weirs, pipes, and open channels; general principles of water wheels and turbines. Prerequisite: course 8. 4 s.h. (E) Either semester. STAFF

## CIVIL ENGINEERING

S10. **Plane Surveying.**—Use of instruments; transit, stadia, compass and plane table surveying; simple triangulation; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, and departures; areas by planimeter; methods of plotting; survey and plot of sections of the campus by stadia, and transit and tape. Eight hours a day, three weeks, Summer School. Prerequisite: course 1. Trigonometry. 3 s.h. (E)

See the *Bulletin of the Summer School*.

11. **Higher Surveying.**—Care and adjustment of instruments; topographical surveying; surveys and resurveys; laying out and division of land; public land system; further calculations, omitted measurements, areas by double longitude; quantities from profiles and cross sections. Prerequisite: course 10. 2 s.h. (E) MR. WILLIAMS

S110. **Plane Surveying.**—Similar to course 10 but especially arranged for students in forestry. Eight hours a day, three weeks, Summer School. Prerequisites: Engineering Drawing and Trigonometry. 3 s.h.

See the *Bulletin of the Summer School*.

\* Division; three departments.

**111. Higher Surveying.**—For students in forestry. In addition to the ground covered in course 11, the field work includes a more thorough drill in the use of the Beaman stadia arc and the topographic abney level and trailer tape while more attention is given to the preparation of finished maps in the office work. Eight hours a day, three weeks, Summer School. Prerequisite: course 10 or 110. 3 s.h.

See the *Bulletin of the Summer School*.

**112. Field Astronomy.**—Determination of latitude, longitude, time, and azimuth by observation on sun and stars; use of precise transit, solar attachment, and sextant. Prerequisite: course 11. 2 s.h. (E) PROFESSOR BIRD

**113-114. Curves and Earthwork—Highways.**—Thorough drill in the calculation and laying out of simple, compound, and easement curves, widening of curves, vertical curves, setting slope stakes, ordinary earthwork computations, and mass diagrams. Prerequisite: course 10. 4 s.h. (E) PROFESSOR HALL

**15. Highway Engineering.**—Location, construction, and maintenance of roads and pavements; dust prevention; road economics. 3 s.h. (E)

PROFESSOR HALL

**117. Highway Engineering.**—Standard tests of stone, gravel, and bituminous materials. Prerequisite: course 15. 2 s.h. (E) MR. WILLIAMS

**118. Materials of Engineering.**—Study and testing of materials other than those taken up in course 117. 2 or 3 s.h. (E) MR. WILLIAMS

**119-120. Railroad Engineering.**—Differences between highway and railway practice affecting curves and earthwork. A. R. E. A. transition curve, frogs, switches, and crossings. Preliminary and location survey of a railway of sufficient length to secure familiarity with methods of actual practice. Paper location made with estimate of cost. Construction and maintenance of track and trackwork, economics, and operating conditions affecting location. Prerequisite: course 113-114. 5 s.h. (E) PROFESSOR BIRD AND MR. WILLIAMS

**123-124. Hydraulic Engineering.**—

(a) **Hydrology.**—Factors affecting precipitation, evaporation from land and water surfaces; relation of precipitation to run-off; estimating run-off; floods and flood flows. Stream gauging.

(b) **Public Water Supply.**—Quantity and quality of water required, hydraulics of wells, reservoirs, works for purification and distribution of water. Standard laboratory tests for chemical and bacteriological examination of water.

(c) **Sewerage.**—Sewerage systems, rainfall and storm water flow, sizes of storm and sanitary sewers, sewage disposal. Standard laboratory tests of sewage. Prerequisite: course 108. 8 s.h. (E)

PROFESSOR HALL

**131. Steel Structures—Stresses.**—Roofs, parallel chord bridges under all types of loads, inclined top chord bridges, including subdivided panels, wind bracing. Prerequisite: course 8. 4 s.h. (E)

PROFESSOR BIRD

**132. Steel Structures—Design.**—Built beams, plate girders, tension members, compression members, tension and compression members, end posts, stringers, floor beams, pins, plates, etc. Drafting. Prerequisites: courses 107 and 131. 4 s.h. (E)

PROFESSOR BIRD

**133. Reinforced Concrete.**—Theory and design of reinforced concrete beams, slabs, columns. Prerequisite: course 107. 3 s.h. (E) PROFESSOR BIRD

**134. Masonry Structures.**—Ordinary foundations, dams, retaining walls, arches, piers, abutments. Prerequisites: courses 107 and 133. 3 s.h. (E)

PROFESSOR BIRD



**137-138. Seminar.**—Students are required to make reports and to talk on current engineering literature or on such other topics as may be assigned. **2 s.h. (E)** STAFF

**143-144. Projects in Civil Engineering.**—This course may be assigned by the Head of the Department to certain Seniors who have shown an aptitude for research in one distinct field of civil engineering, in which case it may be substituted for certain general civil engineering courses. **3-6 s.h. (E)** Either semester. PROFESSORS BIRD AND HALL

**E.240. Indeterminate Structures.**—Introductory course dealing with the application of theory of least work, deflection, and rotation to indeterminate stresses. Problems are solved analytically, graphically, and by deformer. Prerequisites: course 131 and ability to read French or German. **3 s.h. (E)** PROFESSOR BIRD

## ELECTRICAL ENGINEERING

**51-52. Survey of Electrical Engineering.**—A general survey course covering the entire field of electrical engineering, intended to give the electrical engineering student a general preview of the subject as a whole. Required of Sophomores. Prerequisites: Freshman mathematics and concurrent physics. **6 s.h. (E)** MR. MEIER

**151. Theory of Direct Current Circuits.**—A course consisting of lectures and recitations covering the fundamental theory of direct current circuits. Two-hour class, two-hour computation. Prerequisites: course 51-52, Physics 57-58, Mathematics 99, 100. Mathematics 131 should be taken concurrently. **3 s.h. (E)** MR. RANSON

**152. Theory of Alternating Current Circuits.**—This course covers the algebra of vectors and complex quantities, non-sinusoidal waves, polyphase circuits, harmonics, and unbalanced three-phase circuits. Two-hour class, two-hour computation. Prerequisites: course 151, Mathematics 131. **3 s.h. (E)** MR. MEIER

**153-154. Principles of Electrical Engineering.**—An elementary course consisting of lectures, recitations, and laboratory covering the principles of direct and alternating current machinery, and their applications, designed especially for students in civil and mechanical engineering. This course includes one three-hour period in the electrical machinery laboratory per week. Prerequisite: Physics 57-58. **6 s.h. (E)** MR. RANSON

**155. Direct Current Machinery.**—A study of the principles which underlie the design and operation of all types of direct current machinery. Prerequisites: courses 151, 161-162. **2 s.h. (E)** MR. MEIER

**156. Electric Transportation.**—Construction, operation, and uses of electric equipment in air, land, and sea transportation. Elective. Prerequisites: courses 151, 152, 161-162, or 153-154. **3 s.h. (E)** MR. RANSON

**158. Electric-Power Stations.**—A course of lectures and recitations pertaining to the design, construction, and operation of electric power stations, both steam and hydraulic. Consideration of prime movers; generating machinery; switchboards; instruments, relays, and protective devices; operation and management; visits to neighboring plants. Prerequisites: courses 151, 152, and 187-188. **3 s.h. (E)** MR. RANSON

**159. Electric-Power Transmission.**—A course of lectures and recitations on the factors involved in the transmission of electrical energy over long distances and the use of hyperbolic functions in the solution of transmission line problems. Two-hour class, two-hour computation. Prerequisites: courses 151, 152. **3 s.h. (E)** PROFESSOR SEELEY

**161-162. Electrical Circuits Laboratory.**—This course provides experimental verification of the theory developed in courses 151 and 152, and should be taken concurrently. Three hours per week. 2 s.h. (E) PROFESSOR SEELEY

**163. Direct Current Machinery Laboratory.**—A study of the technique of testing direct current machines and a thorough analysis of their performance. Concurrent with course 155. 1 s.h. (E) MR. MEIER

**165-166. Electrical Engineering Seminar.**—Seniors are required to present reports and dissertations on material appearing in current engineering literature. Juniors may participate, but without credit. Scheduled at night. 2 s.h. (E) STAFF

**257-258. Alternating Current Machinery.**—This course covers the theory underlying the design, construction, and operation of synchronous generators and motors, transformers, converters, single-phase and polyphase motors of all types. Two-hour class, three-hour laboratory. Prerequisites: courses 152, 155. 6 s.h. (E) MR. MEIER

**261. Communication Engineering, Audio Frequency.**—An advanced course on the principles underlying voice-frequency communication covering nature of speech and sound, wave propagation over metallic circuits, filters; resistance, inductance, capacitance at audio frequencies; transmission characteristics of communication equipment. Two-hour class, three-hour laboratory. Prerequisites: courses 151, 152, Mathematics 131. 3 s.h. (E) PROFESSOR SEELEY AND MR. RANSON

**262. Communication Engineering, Radio Frequency.**—An advanced course on the principles underlying radio communication, covering vacuum tubes, vacuum-tube circuits, oscillating and coupled circuits, antennae, radiation, transmission and reception. Three-hour class, three-hour laboratory. Prerequisite: course 261. 4 s.h. (E) PROFESSOR SEELEY AND MR. RANSON

**263-264. Mathematical Analysis of Electrical Circuits.**—An advanced course on the detailed mathematical analysis of certain circuits used in electrical engineering, with an introduction to the use of operational calculus as applied to electrical circuits. Elective. Prerequisites: courses 151, 152 and Mathematics 131. 6 s.h. (E) PROFESSOR SEELEY

**E.265-266. Projects in Electrical Engineering.**—Project work may be undertaken only by those who show special aptitude, or who have had previous experience on some problem. The consent of the Chairman of the Department must be obtained before registering. *Seniors only.* Elective credit. 3-6 s.h. (E) PROFESSOR SEELEY AND STAFF

## MECHANICAL ENGINEERING

**79. Constructive Processes.**—Recitation course covering general processes in foundry, forge, and machine shop. Trips to neighboring shops are made. Prerequisite: course 4. Open only to mechanical engineering students. 2 s.h. (E) MR. CHAPMAN

**81. Mechanism.**—Displacement, velocity, and acceleration diagrams. Particular attention is given to gearing, cams, trains of mechanisms, belts, and link work. One recitation, three laboratory hours. Prerequisite: course 4. 2 s.h. (E) MR. REED

**85. Steam Engineering.**—Elementary principles of boilers, engines, turbines, and auxiliaries; properties of steam, fuels, and combustion. 2 s.h. (E) PROFESSOR WILBUR AND MR. CHAPMAN

170-171 (old 183-184). **Machine Design.**—Friction, lubrication, bearings, shafts, springs, pressure vessels, fastenings, gears, belting, friction clutches, and fly-wheels. Application of the above to proportioning parts of several complete machines. Two recitations, three laboratory hours. Prerequisites: courses 8, 81, and 107. 6 s.h. (E) MR. REED

187-188. **Engineering Thermodynamics.**—Properties and thermodynamics processes of gases and vapors; cycles; efficiencies and performances of heat engines. Prerequisites: course 85 and Mathematics 100. 6 s.h. (E)

PROFESSOR WILBUR AND MR. REED

173-174. **Seminar.**—Students are required to make reports and to talk on current engineering literature or on such other topics as may be assigned. 2 s.h. (E) STAFF

175-176. **Projects in Mechanical Engineering.**—This course may be assigned by the Chairman of the Department to certain Seniors who have shown an aptitude for research in one distinct field of mechanical engineering, in which case it may be substituted for certain general mechanical engineering courses. Either semester. 3 s.h. (E) PROFESSOR WILBUR AND STAFF

189-190. **Junior Mechanical Engineering Laboratory.**—Open only to mechanical engineering students. Use of steam and fuel calorimeters; gas analysis; oil testing; measurement of steam and air flow; tests on steam, oil, and internal combustion engines and boilers. Six laboratory hours. (Concurrent with 187-188.) 4 s.h. (E) MR. CHAPMAN

199-200. **Junior Mechanical Engineering Laboratory.**—Open only to civil and electrical engineering students who have elected courses 187-188. Use of steam and fuel calorimeters; gas analysis; measurement of steam and air flow; tests on steam engines and turbines, boilers and internal combustion engines. Three laboratory hours. 2 s.h. (E) MR. REED

191. **Power Plant Calculations.**—Factors which determine the location and type of power plant including heat balance and economics, boilers, feed water treatment, prime movers, condensers, auxiliaries, and accessories. Prerequisites: Mathematics 100 and courses 188 and 189. 3 s.h. (E)

PROFESSOR WILBUR

192. **Industrial Engineering.**—Economic and engineering factors in the development of power plants and other modern industrial organizations with the study of manufacturing methods. *For Seniors only.* 3 s.h.

PROFESSOR WILBUR

193-194. **Senior Mechanical Engineering Laboratory.**—Economy and efficiency tests of steam engines, turbines, boilers, power plant auxiliaries, fans, internal combustion engines, and heating and refrigerating systems according to the A. S. M. E. Power Test Codes. Heat balance and heat transfer tests. Six laboratory hours. Prerequisite: course 191 concurrently. 4 s.h. (E)

PROFESSOR WILBUR

195. **Heating and Ventilating.**—Heat losses from building; design of hot air, hot water, and steam heating systems; humidifying, air conditioning, and ventilation in homes, offices, and factory buildings. 2 s.h. (E) MR. REED

196. **Refrigeration.**—Heat transfer and heat insulation; cooling and refrigerating systems applied to ice manufacturing and cold storage; dry ice and other refrigerants considered. Prerequisites: courses 188 and 190 or 200. 2 s.h. (E) MR. REED

**197. Internal Combustion Engines.**—Otto and Diesel engine cycles as applied to the usual types of internal combustion engines using gaseous or liquid fuels. Analytical and graphical methods applied to fluctuations of energy, balancing of rotating parts, and regulation by governors. Prerequisite: course 187. 3 s.h. (E) PROFESSOR WILBUR

**198. Aeronautics.**—Airfoils, parasite resistance, propellers, the complete airplane, stability, performance, dynamic loads, and equipment. Prerequisite: course 171. 3 s.h. (E) MR. CHAPMAN

## ENGLISH

PROFESSOR BROWN, CHAIRMAN; PROFESSOR GREENE, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR PATTON, SUPERVISOR OF FRESHMAN STUDIES; PROFESSORS BAUM, GILBERT,\* HUBBELL,\* IRVING, AND WHITE; ASSOCIATE PROFESSORS GOHDES AND MITCHELL; ASSISTANT PROFESSORS ANDERSON, BLACKBURN, HERRING, JORDAN, SUGDEN, VANCE, WARD, AND WHITE; INSTRUCTORS—POTEAT, SANDERS, FITZGERALD, HARWELL, LEWIS, AND MARTIN

## COMPOSITION

**1-2. English Composition.**—All Freshmen are required to take course 1 and course 2.

Students in courses 1 and 2 who fail to earn an average grade of "C" on the work of both semesters and at least a grade of "C" on the work of the spring term are required to do the work of English 53 during their Sophomore year. Those who do not earn a grade of "D" during the first semester are required to repeat during the spring course 1; if they earn a grade of "D" or more at the end of the spring semester, they receive credit for the first half-year of work, and during their Sophomore year they are required to do the work of English 2. Students whose grades for both semesters fall below "D" must repeat the entire course during their second year. 6 s.h. (E & W)

PROFESSOR IRVING; ASSISTANT PROFESSORS ANDERSON, BLACKBURN, PATTON, SUGDEN, VANCE, WARD, AND WHITE; DRs. POTEAT AND SANDERS; MESSRS. FITZGERALD, HARWELL, AND MARTIN

**53. English Composition.**—A second course in composition. *Offered again in the second semester.* 3 s.h. (W & E) ASSISTANT PROFESSOR JORDAN

**54. Composition.**—This is a practical course in composition for those who desire a greater mastery of, and facility in, the use of the language than they get from English 1-2 and 53. 3 s.h. (W)

ASSISTANT PROFESSOR JORDAN

**65-66. Approaches to Imaginative Writing.**—This course stresses the essentials of imaginative writing with the aim particularly to develop skill in description, characterization, and poetry. The course includes also the analysis of selected models. The number of students in this course is limited, and all must have the consent of the instructor. Open to Sophomores and, in special cases, to Freshmen. 6 s.h. (W) DR. SANDERS

**101-102. Composition.**—This work is planned for those who have done good work in the required courses in composition. Students who wish to take this course must have made a grade of "B" or more in English 1-2, or they must have credit for English 1-2 and English 53. The number of students is limited, and all must have the consent of the instructor. Open to men and women. 6 s.h. (W) ASSOCIATE PROFESSOR MITCHELL

\* Absent on leave, second semester, 1938-1939.



**103-104. Composition.**—Instruction in this course is concerned largely with descriptive and narrative writing. Only students who are able to write with facility and correctness are expected to enroll; they must have the consent of the instructor. Open to women and men. **6 s.h. (E)**

ASSISTANT PROFESSOR BLACKBURN

**107-108. Journalism.**—The first semester is devoted to news-writing and copy-reading; the second semester, to the writing of feature articles and editorials.

ASSISTANT PROFESSOR SUGDEN

**133-134. Verse-Writing.**—See description of this course on another page.

PROFESSOR WHITE

#### DRAMATICS AND SPEECH

**105-106. Play-Writing.**—The work of this course is concerned chiefly with the technique of the one-act play though study is made also of the longer forms. Worthy plays written by students are presented by the members of the play-production course. Open to Juniors, Seniors, and Sophomores approved by the Dean. **6 s.h. (w)**

MR. WEST

**119-120. History of the Theater.**—A study of the development of the theater, of methods of production, and of representative plays of the various periods from the time of the early Greeks to the present day constitutes the work of this course. Open to Juniors, Seniors, and Sophomores approved by the Dean. **6 s.h. (w)**

MR. WEST

**121-122. Play-Production.**—This is a course dealing with the theory and practice of producing plays. The work includes make-up, lighting, scene-design and painting, costume, directing, and stage-management. Plays are studied with a view to producing them. There is practice-work both in the laboratory and in the theater. Open to Juniors, Seniors, and Sophomores approved by the Dean. **6 s.h. (w)**

MR. WEST

**139-140. The Speaking Voice.**—This course gives training in placement, pitch, range, and diction for use in professional work and in daily conversation. Open to all undergraduates with the approval of the Dean. **6 s.h. (w)**

MR. WEST

#### FOR SOPHOMORES, JUNIORS, AND SENIORS

**151. Speech.**—A course in the fundamentals of public speaking with emphasis upon the effective presentation of ideas. **3 s.h. (w)**

ASSISTANT PROFESSOR HERRING AND MR. LEWIS

**152. Argumentation.**—A course dealing with the principles of argumentation and debating with special emphasis upon brief-making and practice-speaking. Public questions are studied as parallel work. **3 s.h. (w)**

ASSISTANT PROFESSOR HERRING AND MR. LEWIS

#### ENGLISH AND AMERICAN LITERATURE AND LANGUAGE

**55-56. Representative Writers.**—**6 s.h.**

PROFESSOR IRVING; ASSISTANT PROFESSORS BLACKBURN, PATTON, SUGDEN, VANCE, AND WARD; DR. SANDERS

**63-64. A Survey of English Poetry.**—**6 s.h.**

ASSOCIATE PROFESSOR MITCHELL

**123-124. Shakespeare.**—**6 s.h. (w)**

PROFESSOR BROWN

**125-126. English Literature, 1798-1832.**—**6 s.h. (w & E)**

PROFESSOR WHITE AND ASSISTANT PROFESSOR WHITE

127-128. English Prose Literature, 1832-1900.—6 s.h. (w)

PROFESSOR GREENE

129-130. The History of the Novel in England.—6 s.h. (w & e)

ASSOCIATE PROFESSOR MITCHELL AND ASSISTANT PROFESSOR VANCE

131. The Drama, 1770-1832.—3 s.h.

PROFESSOR HUBBELL

[Not offered in 1938-39]

133-134. Verse-Writing.—This work is offered each year for not less than three or more than six students, who must make to the instructor written application accompanied by some original verse. Open to Seniors, Juniors, and in exceptional cases to Sophomores. 6 s.h. (w)

PROFESSOR WHITE

137-138. American Literature.—6 s.h.

PROFESSOR HUBBELL, ASSOCIATE PROFESSOR GOHDES,  
AND ASSISTANT PROFESSOR ANDERSON

142. Materials and Methods in High-School English.—6 s.h.

ASSISTANT PROFESSOR JORDAN

143-144. English Literature, 1550-1625.—Students in this work read and study the most important non-dramatic literature from 1550 to 1625. 6 s.h. (w)

PROFESSOR GREENE

145-146. English Poetry, 1832-1900.—6 s.h.

DR. SANDERS

[Not offered in 1938-39]

147-148. Contemporary Poetry.—Open to Juniors, Seniors, and to Sophomores recommended by the Dean. 6 s.h. (w)

ASSISTANT PROFESSOR ANDERSON

149-150. English Literature, 1625-1700.—6 s.h.

ASSISTANT PROFESSOR WARD

153-154. Comparative Literature.—6 s.h.

PROFESSOR IRVING

[Not offered in 1938-39]

155-156. Contemporary Drama.—Open to Junior and Senior women and men and to those Sophomores recommended by the Dean. 6 s.h. (e)

ASSISTANT PROFESSOR WHITE

157-158. Contemporary Novel.—Open to Juniors, Seniors, and to Sophomores recommended by the Dean. 6 s.h.

ASSISTANT PROFESSORS ANDERSON AND WHITE

[Not offered in 1938-39]

159-160. English Literary Biography.—6 s.h.

PROFESSOR WHITE

[Not offered in 1938-39]

161-162. The History of the English Language and Historical English Grammar.—This work is strongly recommended for all students in English who plan to teach the subject.

PROFESSORS BROWN AND GREENE

[Not offered in 1938-39]

201-202. Anglo-Saxon.—The first half of the year is given to the reading of prose and to a study of the language; the second half, to the reading of *Beowulf*. 6 s.h.

PROFESSOR BROWN

203-204. Chaucer.—The work consists of the reading and study of the principal Canterbury Tales, the Troilus, the minor poems, and some of the translations. Students prepare a reading report and a term-paper. 6 s.h.

PROFESSOR BAUM



207-208. **English Literature, 1400-1550.**—6 s.h.

PROFESSOR BAUM

[Not offered in 1938-39]

213-214. **Folk-Lore and Folk-Songs.**—The first half of the work consists of an extensive study of the field of folk-lore; the second, of the ballad and other folk-songs. 6 s.h.

PROFESSOR BROWN

In 1938-39 the second half is offered during the first semester. 3 s.h.

215-216. **Elizabethan Drama.**—6 s.h.

PROFESSOR GILBERT

217. **Spenser.**—In this course the students study the works of Spenser, giving especial attention to the major poems. 3 s.h.

PROFESSOR GILBERT

218. **Milton.**—A detailed study of Milton's prose and poetry with emphasis upon the major poems constitutes the work of this course. There are frequent written reports and a term-paper. 3 s.h.

PROFESSOR GILBERT

In 1938-39 both 217 and 218 are offered during the first semester.

219-220. **English Prose and Poetry of the Eighteenth Century.**—The work of the first semester falls within the age of Pope; that of the second, within the age of Johnson. There are term-papers. 6 s.h.

PROFESSOR IRVING

221. **Restoration and Eighteenth-Century Drama.**—3 s.h.

ASSISTANT PROFESSOR WARD

[Not offered in 1938-39]

225-226. **Studies in Victorian Literature.**—6 s.h.

PROFESSOR BAUM

[Not offered in 1938-39]

227-228. **Literary Criticism.**—This work consists of a study of the history of literary criticism from Aristotle to the present. There are oral and written reports and term-papers. 6 s.h.

PROFESSOR GILBERT

[Not offered in 1938-39]

229-230. **American Literature, 1800-1870.**—This work consists of a survey of the principal writers of the period. There are two oral reports and a term-paper each semester. Seniors must have credit for English 137-138 or its equivalent. 6 s.h.

PROFESSOR HUBBELL AND ASSOCIATE PROFESSOR GOHDES

In 1938-39 both 229 and 230 are offered the first semester.

231-232. **Special Studies in American Authors.**—6 s.h.

ASSOCIATE PROFESSOR GOHDES

[Not offered in 1938-39]

233-234. **American Literature since 1870.**—The work is a survey of the period, including the works of a few of the most important living authors. There are two term-papers. 6 s.h.

ASSOCIATE PROFESSOR GOHDES

239-240. **Shakespeare Problems.**—Students are expected to have read the principal plays before entering the course. 6 s.h.

PROFESSOR BROWN

In 1938-39 the first half is offered during the second semester.

#### DEPARTMENTAL MAJOR

*Prerequisites:* English 1 and 2.

*Major Requirements:* A major in English consists of twenty-four semester-hours of credit distributed as follows: *eighteen* hours must be earned in courses in English and American literature of the 100 and 200 groups; of these eighteen at least *six* must be earned in courses in English literature of the 200 group.

## DEPARTMENTAL HONORS PROGRAM

(a) *Prerequisite*: The minimum requirement for admission to Honors in English is the completion of a Sophomore course in English literature on which the student makes at least a grade of "B."

(b) *Honors Readings*:

(1) **The Elizabethan Period and the First Half of the Seventeenth Century.**—The Bible; Shakespeare and Elizabethan drama; Spenser; Donne; Bacon and other writers of prose. PROFESSOR IRVING

(2) **English Literature from the Restoration to the Death of Pope.**—Milton; Dryden; the Comedy of Manners; Swift; Defoe; Addison and Steele; Pope. PROFESSOR IRVING

(3) **English Literature, 1744-1832.**—Fielding; Johnson; Wordsworth; Byron; Shelley; Keats; Lamb; Hazlitt. ASSISTANT PROFESSOR BLACKBURN

(4) **English Literature, 1832-1900.**—Carlyle; Tennyson; Browning; Arnold (poetry and prose); Ruskin; Morris; Pater.

ASSISTANT PROFESSOR BLACKBURN

(c) Two year-courses in the Department of English (under certain conditions work in related departments may be substituted for this requirement).

(d) Four year-courses in related departments.

(e) *General Honors Examinations*: Four comprehensive written examinations and a supplementary oral examination will be held at the end of the Senior year to test the student's knowledge of the four periods of English literature studied. Students may substitute for one of the written examinations a special thesis on a topic correlating English literature with a related field of knowledge or on any other approved topic.

## FINE ARTS

ASSISTANT PROFESSORS McDONALD AND HALL; INSTRUCTOR-MAYFIELD

The purpose of the courses in the Department is so to train the student's eye by directed study of characteristic examples of the historic styles that he may apply his own standards of judgment to less familiar works either of the past or of the present. The advanced courses cover only the post-classical field to avoid duplication of courses in other departments. Course 1-2 or 51-52 is a prerequisite for all courses except 92 and 93.

**1-2. History of Art.**—The survey course for Freshmen is designed to help the new student in relating the different manifestations of art in each period with the civilization which produced them. It therefore treats the historical background, architecture, sculpture, painting, and the minor arts of each style as a unit, emphasizing Greek sculpture, French medieval architecture, and Italian Renaissance painting. 6 s.h. (E)

1, ASSISTANT PROFESSOR McDONALD; 2, MISS MAYFIELD

**51-52. History of Art.**—The survey course for upperclassmen treats each art as a unit, relating it to its background and its companion arts wherever possible, but leaving many of the problems of correlation to the initiative of the student. The development of architecture is considered in course 51, the development of sculpture and painting in course 52. Courses 51 and 52 are both offered each semester. Credit for a single semester will be given only to Seniors electing it during their last semester. The courses are not open to Freshmen or to students who have had course 1-2. 6 s.h. (W & E)

51, ASSISTANT PROFESSOR HALL; 52, ASSISTANT PROFESSOR McDONALD

**53-54. Theory of Representation and Design.**—A consideration of the general theory of tone relations, of the different modes of representation, and of the theory of design. The course aims to give a thorough understanding of the principles governing the art of drawing and painting as practiced in the past and at the present time. It will be open only to students who are enrolled in or have already completed a full course in the Department. One lecture or conference and two laboratory hours. 4 s.h. (E) MISS MAYFIELD

**92. Oriental Art.**—A study of the art of the Islamic world, India, China, and Japan as it reflects the life and philosophy of the major periods. Open to Sophomores, Juniors, and Seniors, without prerequisite. 3 s.h. (E)

ASSISTANT PROFESSOR McDONALD

**93. American Painting and Sculpture.**—A study of the slow development of a cultural tradition in the United States in the wake of political and social progress; of the prolonged influence of the European schools; and of the growing independence of contemporary artists. 3 s.h. (E)

MISS MAYFIELD

**101. Introduction to Medieval Art.**—A study of the development of structure and decoration from the pre-Romanesque sources through the twelfth century, with emphasis on the tendencies in Romanesque architecture and sculpture which underlie the logical development of Gothic art. 3 s.h. (E)

ASSISTANT PROFESSOR McDONALD

[Not offered in 1938-39]

**102. Development of Gothic Art.**—An outline of the structural and decorative problems solved by the builders of the Middle Ages. This course emphasizes the architecture, sculpture, and stained glass of the great cathedrals, and touches upon the mural painting, panel painting, and manuscript illumination of the period. 3 s.h. (E)

ASSISTANT PROFESSOR McDONALD

[Not offered in 1938-39]

**103. Renaissance and Baroque Architecture: Italy.**—A survey of architecture in Italy during the fifteenth, sixteenth, and seventeenth centuries, studied through the works of individual architects and their schools. 3 s.h. (E)

ASSISTANT PROFESSOR HALL

**104. Renaissance and Baroque Architecture: Spain and the North.**—An inquiry into the spread of Italian Renaissance influence in architecture throughout Spain, France, Germany, the Low Countries, and England in the sixteenth and seventeenth centuries. 3 s.h. (E)

ASSISTANT PROFESSOR HALL

**105. European Architecture since 1700.**—A study of the changes in style, plan and material arising in the eighteenth century as the result of awakened interest in the past, political freedom of thought, and scientific invention; the parallel development of classicism and romanticism, the succeeding phases of eclecticism, and the rise of functionalism. 3 s.h. (E)

ASSISTANT PROFESSOR HALL

[Not offered in 1938-39]

**106. Architecture of the Americas.**—An historical and critical survey of building in the Western Hemisphere. The work of the pre-European cultures and of the European colonies is briefly studied; emphasis is placed on the influence of political and social conditions and of newly discovered materials on the architecture of the United States from the Early Republic period to the present. 3 s.h. (E)

ASSISTANT PROFESSOR HALL

[Not offered in 1938-39]

**107. Renaissance Painting and Sculpture: Italy.**—A study of the rise and development of Italian painting and sculpture from the fourteenth through the sixteenth centuries. 3 s.h. (E) MISS MAYFIELD

**108. Renaissance Painting and Sculpture: The North.**—A study of Flemish and German painting and sculpture of the fifteenth and sixteenth centuries, beginning with the Van Eycks and culminating in the work of Breughel and Holbein. 3 s.h. (E) MISS MAYFIELD

**109. Seventeenth-Century Painting.**—An analysis of the character and tendencies of seventeenth-century painting in Italy, Spain, and the Netherlands. 3 s.h. (E) MISS MAYFIELD

[Not offered in 1938-39]

**110. Painting and Sculpture since 1700.**—An investigation of impressionism in painting from its origins in the eighteenth century to its culmination in the work of Renoir, Cézanne, and Van Gogh. 3 s.h. (E) MISS MAYFIELD

[Not offered in 1938-39]

**120. English Architecture.**—A study of the influences on architecture of the invasions and the conquest; the renaissance under the Tudors and Stuarts; academism and the baroque; classicism and romanticism; eclecticism and functionalism. Open to approved Seniors and Juniors.

ASSISTANT PROFESSOR HALL

#### COURSES OFFERED IN OTHER DEPARTMENTS ACCREDITED IN THIS DEPARTMENT

Greek 141-142. Greek Art.

Greek 247-248. Greek Archaeology.

Latin 115. Architecture of Ancient Rome.

Latin 215. Introduction to Roman Art and Archaeology.

Latin 216. Topography and Monuments of Ancient Rome.

Philosophy 201-202. The Philosophy of Art.

Philosophy 213-214. History of Aesthetics.

Psychology 202. Psychology of Aesthetics.

#### DEPARTMENTAL MAJOR

*Prerequisites:* 1-2 or 51-52.

*Major Requirements:* 53-54, and eighteen hours in courses chosen from the departmental offerings, or from courses in other departments accredited in this Department.

#### HONORS WORK

Senior Fine Arts Honors. **Reading in Medieval Art.** A study of the religious, philosophical, and racial elements of medieval civilization as they influenced artistic production.

ASSISTANT PROFESSOR McDONALD

#### FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN; PROFESSORS SCHUMACHER AND WOLF; ASSOCIATE PROFESSORS HARRAR, MAUGHAN, AND THOMSON; ASSISTANT PROFESSOR COILE\*

Forestry 52 is open to all Sophomore, Junior, and Senior students in Duke University and is intended to afford a better understanding of trees and forests and of the economic and social importance of forests and forestry. The other courses are designed as part of a program of training in technical forestry leading to the professional graduate degree of Master of Forestry (see *Bulletin of the School of Forestry*). However, with the consent of the instructor in charge, certain of the forestry courses may be elected by students in other curricula provided they have had adequate preparation.

Students without a Bachelor's degree who are preparing for work in forestry as a profession should take the courses outlined in the pre-forestry curriculum.

\* Absent on leave, second semester, 1938-1939.



**52. Principles of Forestry.**—An introduction to forestry emphasizing the economic and social importance of forests and their influence on streamflow, water supply, soil, and erosion; brief studies of individual trees and the life history of forests and their reproduction, treatment, and protection; principal forest regions and timber trees of United States; a brief history of forestry in America and present-day forestry agencies. Work consists of lectures, assigned readings, reports, and field trips. Open to Sophomores, Juniors, and Seniors. **2 s.h. (w)**  
ASSOCIATE PROFESSOR THOMSON

**S150. Forest Surveying.**—Application of plane surveying to forest problems; practice in making boundary and topographic surveys of forested tracts, using both intensive and extensive methods. Work includes use of transit, level, traverse board, topographic abney and slope tape, and aneroid barometer. Prerequisites: Civil Engineering S110, Plane Surveying, or equivalent. *Five weeks, eight hours a day, beginning June 25.* **5 s.h. (w)**  
ASSOCIATE PROFESSOR MAUGHAN

**S151. Forest Mensuration.**—Field studies in methods of measuring content and growth of trees and forest stands; practice in timber estimating, log scaling, use of mensurational instruments, and collection of basic data. *Four weeks, eight hours a day, beginning August 1.* **4 s.h. (w)**  
PROFESSOR SCHUMACHER

**211. Logging and Lumber Manufacture.**—Methods of harvesting timber, transporting logs, and manufacturing lumber, with emphasis on costs and economic application under different forest conditions. **3 s.h. (w)**  
Mr. \_\_\_\_\_

**212. Forest Products.**—Preparation, manufacture, and use of tree products in forms other than lumber, with emphasis on methods, costs, and application under different forest conditions. **3 s.h. (w)**  
Mr. \_\_\_\_\_

**224. Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. **4 s.h. (w)**  
PROFESSOR WOLF

**251. Sampling Methods in Forestry.**—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. **2 s.h. (w)** PROFESSOR SCHUMACHER

**252. Forest Mensuration.**—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. **2 s.h. (w)**  
PROFESSOR SCHUMACHER

**253. Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. **3 s.h. (w)**  
ASSOCIATE PROFESSOR HARRAR

**257. Design of Forestry Experiments and Analysis of Data.**—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific method in forest research. **5 s.h. (w)**  
PROFESSOR SCHUMACHER

**259. Wood Anatomy and Properties.**—Anatomical, chemical, and non-mechanical physical properties of wood; macroscopic and microscopic identification of more important woods of United States. Prerequisite: Chemistry 1 and 2 or equivalent. **3 s.h. (w)**  
ASSOCIATE PROFESSOR HARRAR

**260. Timber Mechanics.**—Comprehensive study of mechanical properties of wood and factors affecting its strength; strength-moisture relationships; standard methods of timber testing and application of strength data in development of working stresses; use of graphic statics in analysis of stress in wooden structures. Prerequisites: Physics 1 and Forestry 259, or equivalents. 3 s.h. (w)  
ASSOCIATE PROFESSOR HARRAR

**261. Forest Soils.**—Origin, development, and classification of soils with special emphasis on those developed in climates supporting forests; morphological, physical, and chemical properties of soils in relation to growth of trees; field identification, field sampling, laboratory analysis, and interpretation of field and laboratory observations; interrelationships of soil and forest cover. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents. Physical geology and analytical chemistry are also desirable. 3 s.h. (w)  
ASSISTANT PROFESSOR COILE

**264. Silvics.**—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: Botany 151 and 156, and Forestry 253 and 261, or equivalents. 3 s.h. (w)  
PROFESSOR KORSTIAN

**266. Forest Seeding and Planting.**—Place of artificial regeneration in practice of forestry; reforestation surveys and plans; collection, extraction, cleaning, testing, and storage of forest tree seeds; direct seeding; nursery practice; forest planting. 2 s.h. (w)  
PROFESSOR KORSTIAN

**273. Forest Protection.**—Fundamental principles of forest protection; protection against atmospheric agencies, injurious plants, insects, domestic animals, and wild life; causes of forest fires and their prevention; presuppression activities; fire suppression; fire control costs and standards; fire plans. 3 s.h. (w)  
ASSOCIATE PROFESSOR THOMSON

**277. Forest Policy.**—Critical study of forestry movement and development of a forestry policy, particularly in United States; brief resume of forestry in important foreign countries; public land laws of United States; development of federal and state forestry; forestry laws. 2 s.h. (w)  
ASSOCIATE PROFESSOR THOMSON

**278. Economics of Forestry.**—Principles of forest economics. Economic and social values of forests; forest resources and wood requirements; economics of wood production and consumption; prices of forest products; forestry and public finance; forestry and land use; forestry credit; forest fire insurance; forestry as a private business enterprise. Prerequisite: at least one course in the principles of economics. 3 s.h. (w)  
ASSOCIATE PROFESSOR THOMSON

**284. Forest Improvements.**—Principles involved in location, design, and construction of improvements required for administration of forest properties, such as forest roads, trails, bridges, lookout towers, metallic and grounded circuit telephone lines, camps and recreational facilities, and forest buildings; priorities and cost estimates. Lectures, field work, and inspection trips. Prerequisite: Forestry S150, or equivalent. 3 s.h. (w)  
ASSOCIATE PROFESSOR MAUGHAN



# GEOLOGY

ASSISTANT PROFESSOR BERRY

**51. General Geology.**—This course is designed to give a general view of the surface features of the earth, their origin, structure, and materials. Illustrative materials are studied in the laboratory. Excursions are made to neighboring points where the principles of the science are studied in the field. Three one-hour lectures or recitations and one three-hour laboratory. **4 s.h.** (w)  
ASSISTANT PROFESSOR BERRY

**52. General Geology.**—This course is designed to give some knowledge of the chief events of the earth's history. Excursions will be made to suitable neighboring localities. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisite: Geology 51. **4 s.h.** (w)  
ASSISTANT PROFESSOR BERRY

**101-102. Mineralogy.**—This course is devoted to a study of the fundamentals of crystallography and the crystal groups, using crystal models and crystallized minerals. Followed by the systematic study of about 175 important minerals. Determinative work includes exercises on sight recognition, identification by blowpipe, and other physical and chemical tests. Excursions will be made to neighboring mineral localities. Three two-hour periods. Prerequisite: Chemistry 1-2 (can be taken concurrently). **8 s.h.** (w)  
ASSISTANT PROFESSOR BERRY

**151. Economic Geology.**—Study of world distribution, geologic occurrence, and uses of important mineral deposits. Three two-hour periods. Prerequisite: Geology 101-102. **4 s.h.** (w)  
ASSISTANT PROFESSOR BERRY

**152. Introductory Paleontology.**—Systematic study of invertebrate paleontology, dealing mainly with generic characters of the fossil invertebrates and their use in identifying and correlating geologic formations. Three two-hour periods. Prerequisites: Geology 51, 52 and Zoology 1. **4 s.h.** (w)  
ASSISTANT PROFESSOR BERRY

## DEPARTMENTAL MAJOR

*Prerequisites:* None for Geology 51. Chemistry 1-2 for Geology 101-102; Zoology 1 for Geology 152.

*Major Requirements:* Geology 51, 52, 101-102, 151, 152.

# GERMAN LANGUAGE AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES;  
ASSISTANT PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION;  
PROFESSORS KRUMMEL AND WANNAMAKER; ASSISTANT PROFESSOR  
MAXWELL; INSTRUCTORS—SHEARS AND YOUNG

Freshmen entering college with two units of German take German 3-4. Freshmen entering with three units must pass a qualifying examination in second year college German if they desire to enter third year college German and complete their language requirement in one year.

Sophomores, who have taken German 1-2, take German 3-4. Those who have taken German 3-4, take German 51-52. Those who passed German 51-52 in their Freshman year may take any course in the 100 group. This special permission is not granted to those who took German 3-4 as Freshmen.

Juniors, who desire to begin the study of German, may receive full advanced course credit by taking German 101-102. Those who have passed German 1-2, may take either German 3-4 or 103-104. Those who have passed German 3-4 or 51-52 may take any course in the 100 group (except 101-102,

103-104). Those who have taken a 100 course, take any course in the 100 or 200 groups.

Seniors, who desire to take one year of German, may receive full advanced course credit by taking German 101-102. Those who have taken German 1-2 or 101-102, take German 103-104. Those who have passed second year College German here or elsewhere take any course in the 100 group. Seniors majoring in German and those who have passed third year German are expected to take courses in the 200 group.

Although courses in the 100 and 200 groups are regarded as full-year courses, one semester may be taken for 3 semester-hours credit with the consent of the instructor. The 100 courses (except 101-102, 103-104) are third-year German courses for Juniors and Seniors only. (See note on Sophomores above.)

**1-2. Elementary German.—6 s.h. (E & W)**

ASSISTANT PROFESSOR WILSON AND STAFF

**3-4. Intermediate German.—6 s.h. (E & W)**

PROFESSOR KRUMMEL AND STAFF

**51-52. German Civilization.**—(Third year college German for Freshmen and Sophomores only.) A transition course between Intermediate German and the literary and scientific courses of the 100 and 200 groups. **6 s.h. (w)**

**101-102. Elementary German.**—For Juniors and Seniors only. **6 s.h. (w)**

**103-104. Intermediate German.**—For Juniors and Seniors only. **6 s.h. (w)**

**107. Scientific German.**—The German language as used in the various contemporary sciences. **3 s.h. (w)**

PROFESSOR WANNAMAKER AND ASSISTANT PROFESSOR MAXWELL

**108. Advanced Scientific and Medical German.**—Advanced scientific German with special emphasis on medical German. **3 s.h. (w)**

PROFESSOR WANNAMAKER AND ASSISTANT PROFESSOR MAXWELL

**109-110. German Prose Fiction.**—Origin and development of the German novel with special emphasis on the nineteenth century. **6 s.h. (E)**

PROFESSOR KRUMMEL

**111-112. Introduction to the Classic Drama.**—Selected dramas from Lessing, Goethe and Schiller. **6 s.h.**

ASSISTANT PROFESSOR WILSON

[Not offered in 1938-39]

**113-114. Nineteenth-Century German Poetry.**—In the first semester the lyric is studied and in the second semester the ballad. **6 s.h. (w)**

ASSISTANT PROFESSOR WILSON

**115-116. German Drama of the Nineteenth Century.**—A study of leading dramatists from Kleist to Hauptmann. **6 s.h.**

PROFESSOR KRUMMEL

[Not offered in 1938-39]

**119-120. Nibelungenlied to the Twentieth Century.**—The great epochs in German literature studied through English translations. **6 s.h.**

[Not offered in 1938-39]

PROFESSOR VOLLMER

**121-122. Schiller.**—A study of his life and works in relation to the culture of the eighteenth century. **6 s.h. (w)**

PROFESSOR VOLLMER

**123-124. Modern German Short Story.**—Development and technique of the novelle. **6 s.h. (w)**

DR. SHEARS

**125-126. Contemporary German Literature.**—A study of representative works of the twentieth century. **6 s.h.**

DR. SHEARS

[Not offered in 1938-39]

127-128. **Survey of Nineteenth-Century German Literature.**—Representative selections from all important literary schools from romanticism to contemporary realism. 6 s.h. PROFESSOR VOLLMER

[Not offered in 1938-39]

201-202. **Goethe.**—A study of Goethe's life and works, with special emphasis upon the broader aspects of his ever widening interests and literary activities. 6 s.h. PROFESSOR KRUMMEL

[Not offered in 1938-39]

207-208. **German Romanticism.**—The course covers the entire field of German romanticism from 1800 to 1850. 6 s.h. PROFESSOR VOLLMER

[Not offered in 1938-39]

209-210. **Kleist, Grillparzer, and Hebbel.**—The dramatic development in Germany after Schiller. 6 s.h. (w) PROFESSOR KRUMMEL

211-212. **Heinrich Heine and Young Germany.**—Heine's life and thought, culminating in the Jungdeutschland Movement. 6 s.h. (w) PROFESSOR VOLLMER

PROFESSOR VOLLMER

213-214. **Literature of the Empire, 1871-1914.**—A study of the literature of this period as determined particularly by the philosophical, social, political, and religious factors. 6 s.h. (w) PROFESSOR VOLLMER

PROFESSOR VOLLMER

#### DEPARTMENTAL MAJOR

1. *Prerequisites:* German 1-2 and 3-4.

2. *Major Requirements:* Twenty-four hours in the German Department. Twelve of these must be selected from the 200 courses. The remaining twelve may be selected from German 51-52 and any courses in the 100 group except 101-102, 103-104 and 119-120.

#### DEPARTMENTAL HONORS PROGRAM

(a) *Prerequisites:*

1. For admission to candidacy for Honors in German, a student must have begun the study of the language not later than the Freshman year in college.

2. A student who has completed at least 12 s.h. of College German by the end of the Sophomore year with a grade of "A" or "B" (equivalent courses in secondary schools or in other colleges may be presented as substitutes) is eligible to apply to the Departmental Committee for permission to read for Honors in German, provided that his general average for all college work at the time of application is not below "C."

(b) *Honors Work:*

Candidates for Honors in German shall complete the following program of work in the Junior and Senior years:

1. Twenty-seven semester-hours in German courses of the 100 and 200 groups, selected after consultation with the Chairman of the Departmental Honors Committee. The candidate must maintain an average of not less than "B" in each course of this subdivision.

2. Twelve semester-hours in allied departments. The courses in this subdivision must be chosen from the 100 and 200 groups. An average grade of "B" must be maintained in each of these courses.

3. Ten semester-hours in Honors reading under the supervision of an Honors Adviser and culminating in the writing of an Honors essay. The ten hours devoted to supervised reading will be based on a syllabus compiled by the Departmental Committee. The candidate will report to his Honors Adviser regularly on this reading.

(c) *General Honors Examinations.* In May of the Senior year the candidate will be given a general written examination, conducted by his Adviser,

on his Honors reading. A general oral examination, conducted by the Departmental Committee, based principally on the fields covered by the candidate's courses and reading, but presupposing a general knowledge of the development of German culture and civilization and a practical ability in the use of the German language, will also be conducted in May.

## GREEK

PROFESSOR PEPPLER, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; DR. TRUESDALE, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR WAY

Courses 121-122, 141-142, and 131 are entirely in English and require no knowledge of the Greek language. The purpose in offering them is to give a wider circle of students some conception of the debt which modern civilization owes to the Greeks.

1-2. **Course for Beginners.**—6 s.h. (w) Open to all students.

DR. TRUESDALE

53-54. **Xenophon.**—*Anabasis*, Books I-IV. Open to students who offer one unit of Greek for admission and to those who have completed course 1-2. 6 s.h. (w)

DR. TRUESDALE

105-106. **Homer.**—*Iliad*, Books I-VI. Open to students who offer two units of Greek for admission and to those who have completed courses 1-2 and 53-54 or their equivalent. 6 s.h. (w)

PROFESSOR PEPPLER AND DR. TRUESDALE

107-108. **Plato.**—*Apology*, *Crito*, and selections, together with collateral reading in the *Memorabilia* of Xenophon and in the *Clouds* of Aristophanes. **Euripides.**—One play, to serve as an introduction to Greek tragedy. Open to students who offer three units for admission and to others who have completed the required preliminary work. 6 s.h. (w)

DR. TRUESDALE

115-116. **Sight Reading in Greek.**—Three hours per week through the year. 4 s.h. (w)

ASSISTANT PROFESSOR WAY AND DR. TRUESDALE

117-118. **Greek Prose Composition.**—The character of this course is determined by the needs of the students who elect it. 3 s.h. (w)

PROFESSOR PEPPLER

121-122. **Greek Literature in English Translation.**—The purpose of this course is to give a general survey of the life and civilization of the Greeks, especially to those who have never studied the language but wish to become acquainted with some of the choicest portions of the literature by the use of translations. It is, however, open as an elective to all Juniors and Seniors, whether they know Greek or not. First, the *Iliad* and the *Odyssey* are read in translation and illustrated with stereopticon views of the excavations and discoveries at Troy and other cities of the Aegean age; then, many of the extant plays of the three great tragic poets are studied in English translations. 6 s.h. (w)

PROFESSOR PEPPLER

*The student may elect course 122, whether he has taken course 121 or not.*

141-142. **Greek Art.**—Lantern lectures, introduced or supplemented by formal lectures dealing mainly with Greek sculpture and Greek architecture. Some account is given of Egyptian and Mesopotamian art by way of introduction. No knowledge of Greek is required. 6 s.h. (w)

ASSISTANT PROFESSOR WAY

131. **History of Greece.**—The history of Greece with introductory matter relating to the Aegean civilization. 3 s.h. (w) ASSISTANT PROFESSOR WAY

201-202. **Greek Tragedy.**—Selected plays are read, and their dramatic construction and distinctive features are discussed. 6 s.h. (w)  
PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY

203-204. **Homer.**—*Odyssey*. Pindar and Bacchylides. 6 s.h. (w)  
PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY

205-206. **Greek Historians.**—Herodotus, Book VII; Thucydides, Book VII. 6 s.h. (w)  
PROFESSOR PEPPLER

207-208. **Greek Orators.**—Selected speeches. 6 s.h. (w)  
ASSISTANT PROFESSOR WAY

209-210. **Plato.**—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h. (w)  
ASSISTANT PROFESSOR WAY

211-212. **Aristophanes.**—Selected comedies. 6 s.h. (w)  
PROFESSOR PEPPLER

*Only one of the six year-courses for Seniors and Graduates (201-212), listed above, is offered each year.*

243. **Athenian Topography.**—The topography and monuments of ancient Athens. 3 s.h. (w)  
ASSISTANT PROFESSOR WAY

244. **Greek Epigraphy.**—Lectures on the history of the alphabet and the development of the local Greek alphabets, followed by extensive reading of inscriptional texts in facsimile. 3 s.h. (w)  
ASSISTANT PROFESSOR WAY

245. **Greek Dialects.**—A linguistic study of transliterated inscriptions illustrative of the major Greek dialects. The interrelations of the dialectal forms are examined with reference, where possible, to their origin in pre-ethnic Greek. 3 s.h. (w)  
ASSISTANT PROFESSOR WAY

246. **Greek Historical Inscriptions.**—The more valuable historical inscriptions are read in chronological order and interpreted in their general bearing upon the course of Greek history. 3 s.h. (w)  
ASSISTANT PROFESSOR WAY

247-248. **Greek Archaeology.**—Advanced course in the general field for Seniors and Graduates, comprising architecture, sculpture, vases and the minor arts. 6 s.h. (w)  
ASSISTANT PROFESSOR WAY

*Of the courses numbered from 243 to 248 only two semester-courses are offered each year.*

#### DEPARTMENTAL MAJOR

*Prerequisite:* Greek 1-2.

*Major Requirements:* A candidate for a major in Greek must complete twenty-four semester-hours, including the following courses: Greek 53-54, 105-106, 107-108, 117-118, and 131.

#### DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in Greek the student must have completed Greek 1-2 and 53-54 or their equivalent.

Candidates for Honors must complete the following program of work:

(a) Greek 105-106, 131, 141-142, 107-108, and 117-118.

(b) Twelve semester-hours of related work in Latin or German or Philosophy, according to the needs of the individual student.



(c) The Honors Reading. This is tutorial work in which the student is required to read assigned portions of Greek literature by himself, to write papers on topics related to his reading, and to meet the Honors Adviser in weekly conferences for the discussion of the literature that he is reading independently. For the Honors Reading a credit of fourteen semester-hours is given.

Students who enter the University with advanced standing in Greek take higher courses in the language than those listed above.

At the end of the Senior year candidates for Honors must pass a general examination in writing on the subject matter covered by their studies in Greek.

*Graduates of Duke University may attend the American School of Classical Studies at Athens, Greece, without charge for tuition, and are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.*

## HEALTH AND PHYSICAL EDUCATION

### TRINITY COLLEGE

DIRECTOR OF PHYSICAL EDUCATION WADE; ASSISTANT DIRECTOR VOYLES; ASSISTANTS AYCOCK, CALDWELL, CAMERON, CHAMBERS, COOMBS, CRICHTON, FOGLEMAN, GERARD, HAGLER, PERSONS, WARREN; AND GYMNASIUM DIRECTOR CARD

### REQUIRED PHYSICAL EDUCATION FOR MEN

Six-hours credit in physical education with an average grade of "C" must be completed for graduation. Three hours a week through the Sophomore year are needed to fulfill this requirement. All students must enroll in physical education until they have completed the requirement.

All students are required to take a medical and physical examination before registering. Those who reveal pronounced physical deficiencies are excused from the regular courses in physical education and are required to take the course entitled "Individual Corrective Activities." Students assigned to this work continue to take it until they have been pronounced reasonably sound. Thereupon they withdraw from this course and register in the regular physical education course. A student may take from one to eight semesters of this special work. Students without defects may elect to take any four courses they choose. In general, these activities fall in one of three groups: those developing physical efficiency; those affording competitive contests; and those occupying recreative or leisure time. Since a student is not allowed to take the same course twice, he covers four courses in the two years of required work.

Students may receive physical education credit for participation in Freshman and varsity intercollegiate sports.

The regulation indoor suit consists of a sleeveless white shirt, blue running pants, supporter, sweat socks, and rubber-soled shoes. For outdoor work a sweat suit should be added to the above list and shoes suitable for the sport.

### PHYSICAL EDUCATION CLASSES

1-2. Basketball.—1½ s.h.	MR. AYCOCK
3-4. Boxing.—1½ s.h.	MR. WARREN
5-6. Individual Corrective Activities.—1½ s.h.	MR. CHAMBERS
7-8. Handball.—1½ s.h.	MR. GERARD



11-12. Soccer Football.—1½ s.h.	MR. GERARD
13-14. Swimming.—1½ s.h.	MR. PERSONS
15-16. Touch Football.—1½ s.h.	MR. GERARD
17-18. Tennis.—1½ s.h.	MR. FOGLEMAN
19-20. Tumbling Stunts.—1½ s.h.	MR. CARD
21-22. Track.—1½ s.h.	MR. GERARD
25-26. Wrestling.—1½ s.h.	MR. WARREN
27-28. Apparatus Stunts.	MR. CARD
55-56. Individual Corrective Activities.—1½ s.h.	MR. CHAMBERS
59. Baseball.—1½ s.h.	MR. COOMBS
61-62. Golf.—1½ s.h.	MR. CRICHTON AND MR. HAGLER

## INTERCOLLEGIATE ATHLETIC SPORTS

FRESHMEN	VARSITY
30. Baseball.—1½ s.h.	80. Baseball.—1½ s.h.
32. Basketball.—1½ s.h.	82. Basketball.—1½ s.h.
34. Boxing.—1½ s.h.	84. Boxing.—1½ s.h.
37. Football.—1½ s.h.	87. Football.—1½ s.h.
38. Football.—1½ s.h.	88. Football.—1½ s.h.
41. Cross Country.—1½ s.h.	90. Golf.—1½ s.h.
42. Swimming.—1½ s.h.	91. Cross Country.—1½ s.h.
44. Tennis.—1½ s.h.	92. Tennis.—1½ s.h.
46. Track.—1½ s.h.	93. Soccer Football.—1½ s.h.
48. Wrestling.—1½ s.h.	94. Swimming.—1½ s.h.
	96. Track.—1½ s.h.
	98. Wrestling.—1½ s.h.

## ELECTIVES IN PHYSICAL EDUCATION

Students in Group VI A may elect twelve semester-hours from the courses offered below.

These courses are arranged to help meet the increasing demand for teachers who are qualified to teach physical education and to coach.

**171. Recreational Activities.**—Combative contests, games, mass athletics; supervision of community recreation. Open to Sophomores, Juniors, and Seniors. 3 s.h. MR. GERARD

**173. Health Education and Corrective Gymnastics.**—Detection of abnormalities and treatment of physical methods. Prerequisite: Zoology 1-2. Open to Juniors and Seniors. 4 s.h. MR. CHAMBERS

\* Courses numbered fifty (50) and above are not open to Freshmen.

182. **Organization and Administration of Physical Education and Athletics.**—Open to Juniors and Seniors. 2 s.h. MR. WADE, MR. VOYLES

187. **School Programs of Physical Education.**—Open to Juniors and Seniors. 3 s.h. MR. GERARD

190. **Training and First Aid.**—Open to Juniors and Seniors. 2 s.h. MR. CHAMBERS

192. **History, Systems, and Theories of Physical Education.**—Open to Sophomores, Juniors, and Seniors. 3 s.h. MR. VOYLES

#### WOMAN'S COLLEGE

MISS GROUT, DIRECTOR

MRS. BOOKHOUT, MISS DOWLING, MISS LEWIS, AND MISS WYCHE

Six hours credit in physical education, with an average grade of "C," must be completed for graduation. For women students two hours a week through the Junior year are needed to fulfill this requirement.

All students are given a physical and medical examination upon entering and at intervals throughout their college course. Classes in individual gymnastics and moderate sports are arranged for those who should not take the more active work.

*The regulation costume (approximate cost \$6.00) should be purchased from the College Store at the beginning of the year. Uniform tank suits are provided at the gymnasium.*

#### ACTIVITIES OFFERED

*Fall term (October to December):* Hockey, soccer, swimming, diving, tennis, riding, moderate sports, volleyball, golf.

*Winter term (December to March):* Body mechanics, gymnastics, individual gymnastics, apparatus and stunts, clog and character dancing, folk dancing, modern dance, swimming, life-saving, basketball.

*Spring term (March to June):* Tennis, swimming, diving, riding, baseball, track and field, archery, golf, speedball.

#### ELECTIVES IN PHYSICAL EDUCATION

In view of the fact that there is an increasing demand for teachers of general subjects who are qualified to assist in physical education in the public schools, the following courses are offered as electives for prospective teachers and as introductory courses for students planning to continue the study of physical education as a profession. Students other than those in Group VI do not receive academic credit for these courses.

81. **History and Principles of Physical Education.**—Prerequisite: Educational Psychology. An historical survey of physical education stressing the relation between the types of activity developed and the social and political ideals of different nations and periods. An interpretation of aims and objectives; a study of the relative values of the activities in a program of physical education. 3 s.h. MISS GROUT

102. **The Teaching of Physical Education in Elementary Schools.**—Required of women students in Group VI B. A course intended to familiarize prospective elementary school teachers with methods and materials used in teaching physical education to children; includes discussions on the theory of physical education, and practice in teaching elementary school activities. Courses 102 and 185 are mutually exclusive. Open to Sophomores, Juniors, and Seniors. 3 s.h. MISS GROUT

**108. Recreation Leadership.**—This course includes a study of the recreational needs of adolescents and adults; qualities and preparation for leadership; the administration of playgrounds and play centers, including the local community set-up; materials and methods for directing recreational activities. Valuable for students interested in community work. Open to Sophomores, Juniors, and Seniors. 2 s.h. MISS DOWLING

**181-182. Methods of Teaching Athletic Activities.**—A course in the theory and practice of teaching and officiating in team games and athletic sports for girls and women. Open to Juniors and Seniors. 6 s.h. THE STAFF

**185. The Teaching of Physical Education in Secondary Schools.**—This course is intended to give prospective high-school teachers an acquaintance with problems connected with physical education in secondary schools in order that they may be better fitted to help with high-school athletics in communities where no physical education teacher is provided. Discussions and practice teaching. Courses 185 and 102 are mutually exclusive. Open to Sophomores, Juniors, and Seniors. 3 s.h. MISS GROUT

### HYGIENE

**41. Hygiene.**—A study of personal and community health problems including the essential facts of anatomy, physiology, body mechanics, and mental hygiene. Emphasis is placed on the practical application of hygienic principles to individual needs. *Either semester.* 3 s.h. MISS WYCHE

**S112. Personal and School Hygiene.**—General, personal, and school hygiene with some instruction in anatomy and physiology; cause, transmission, and prevention of communicable diseases; the more common defects of school children; schoolhouse sanitation; medical inspection; etc. 3 s.h. MISS GARDINER

### HISTORY

PROFESSOR LAPRADE, CHAIRMAN; ASSOCIATE PROFESSOR NELSON, DIRECTOR OF UNDERGRADUATE INSTRUCTION; MR. HAMILTON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BOYD,\* CARROLL, AND SHRYOCK; ASSOCIATE PROFESSORS BALDWIN, CLYDE, AND SYDNOR; ASSISTANT PROFESSORS LANING, MANCHESTER, QUINN, AND STILL; INSTRUCTORS MCCLOY, MAERY, MUNYAN, ROPP, WOODY, AND CHAFFIN

The undergraduate courses in history are designed to afford (1) an introduction to the study of history by a survey of the history of modern Europe; (2) a more intensive study of general American history; (3) opportunities for more advanced study of phases of American, English, European, Hispanic-American and Far Eastern history which interest the teachers and students.

Course 1-2 or 51-52 is a prerequisite for all other courses; courses 91 and 92 are prerequisite for courses 113, 114, 119-120, 121-122, 153-154, 204, 209-210, 215-216. Sophomores who took only one semester of course 1-2 in the Freshman year may be admitted to courses 91 and 92 or 65-66, provided they made a grade of "B" or above on the semester taken. Courses offered for Seniors and graduates are limited to twenty-five students; Juniors may not elect them without special permission from the Department and the Council on Graduate Instruction. Sophomores must obtain permission of the instructor in order to be admitted to courses numbered above 100; students who are not fully qualified Sophomores will not be admitted to these courses.

**1-2. Modern and Contemporaneous Europe.**—In this course the development of modern Europe since the middle of the sixteenth century is traced with special reference to the rise of nationality, the Industrial Revolution,

\* Deceased January 19, 1938.

scientific thought, domestic politics in the leading states, colonial expansion, diplomacy, and the World War. 6 s.h. (w & e)

Sophomores and Juniors may not be admitted to this course. Courses 1 and 2 are each offered in both semesters. Either semester may be counted separately as an elective, but not as fulfilling the minimum uniform requirements or as a basis of further work in history.

PROFESSOR CARROLL; ASSOCIATE PROFESSORS CLYDE AND NELSON;  
ASSISTANT PROFESSORS MANCHESTER AND QUINN; DRs. McCLOY  
AND ROPP; MR. HAMILTON AND MISS CHAFFIN

**51-52. Modern and Contemporaneous Europe.**—The history of Europe since the beginning of the sixteenth century with special reference to the rise of nationality, the Industrial Revolution, colonial expansion, and international relations. 6 s.h. (w & e)

Courses 51 and 52 are each offered in both semesters.

ASSOCIATE PROFESSOR BALDWIN, DR. MABRY, AND MR. MUNYAN  
[Not open to Freshmen or to students who have had course 1-2.]

**65-66. The Social and Cultural History of Western Europe in the Seventeenth and Eighteenth Centuries.**—6 s.h. (w) Dr. McCLOY

**91. Political and Social History of the United States to 1830.**—A general survey of the development of the United States in which effort is made to place the proper emphasis on underlying economic or other causes of political and social progress. Old number 9. 3 s.h. (w & e)

PROFESSOR SHRYOCK; ASSOCIATE PROFESSOR SYDNOR; ASSISTANT  
PROFESSORS LANNING AND STILL; AND DRs. WOODY AND MABRY

**92. Political and Social History of the United States, 1830 to 1900.**—This course completes the work begun in 91. Old number 91. 3 s.h. (w & e)

PROFESSOR SHRYOCK; ASSOCIATE PROFESSOR SYDNOR; ASSISTANT  
PROFESSORS LANNING AND STILL; AND DRs. WOODY AND MABRY

*Note: In courses 91 and 92 no texts are required, but each student pays a class fee of \$3.00 per semester with which all books to be read are purchased and placed in the libraries. This fee is collected through the Treasurer's Office.*

**101-102. Early European Civilization.**—A study of the development in Western Europe of the institutions and culture of ancient times and the middle ages. 6 s.h. (e)

*Sophomores who made an average grade of "B" or more on course 1-2 may be admitted to this course.*

ASSISTANT PROFESSOR QUINN

**105-106. English Constitutional History.**—A history of England with emphasis on constitutional aspects. This course is required of students in the pre-legal group in the Junior or Senior year. 6 s.h. (w) MR. HAMILTON

**107-108. Social and Cultural History of England.**—Chief attention is given to the period from the time of Chaucer to the present. Sophomores who made a grade of "B" or above on course 1-2 may be admitted to this course. 6 s.h. (e) MR. MUNYAN

**109-110. Political and Cultural Foundations of Modern Europe, 1400-1648.**—6 s.h. (w) ASSOCIATE PROFESSOR NELSON

**113. American Colonial History, 1606-1783.**—The growth of institutions and economic life in the English colonies and the American Revolution. Prerequisites: courses 91 and 92. 3 s.h. (w) DR. WOODY

**114. History of the United States since Reconstruction.**—Reconstruction and its aftermath; cultural, political, and economic development since 1876, agrarian and labor problems, the rise of large industry, the Spanish War and imperialism, the World War, and post-bellum problems. Old number 113. Prerequisites: courses 91 and 92. 3 s.h. (w & e)

ASSISTANT PROFESSOR LANNING

**Ancient History.**—Greek 113—Latin 132.—See Department of Latin and Roman Studies. This course does not count toward a major in history. (w)

**119-120. Social and Economic History of the American People.**—Particular attention is given to the relations between economic forces and such phases of social life as the family, morals and customs, immigration, crime and punishment, amusements, public opinion, and public health. Old number 119. Prerequisites: courses 91 and 92. 6 s.h. (w) PROFESSOR SHRYOCK  
[Not offered in 1938-39]

**121-122. The Church in American History.**—Among the subjects considered are the relation of theology and church government to political theory and practice, the social and political results of the Great Awakening and of ecclesiastical controversies, the part played by the Church in the American Revolution and in the making of state constitutions, in education, westward expansion, in the reform movements of the nineteenth century, labor controversies, the Civil and World Wars, and internationalism. Prerequisites: courses 91 and 92. 6 s.h. (e) ASSOCIATE PROFESSOR BALDWIN  
[Not offered in 1938-39]

**123-124. English History.**—A study of transitions in the political institutions and social development from the Norman Conquest to the present. 6 s.h. (w) PROFESSOR LAPRADE

**125. The Ancient Regime, the French Revolution, and Napoleon.**—3 s.h. (w) PROFESSOR CARROLL  
[Not offered in 1938-39]

**126. The Congress of Vienna and the Rise of the European Nations to 1870.**—3 s.h. (w) PROFESSOR CARROLL  
[Not offered in 1938-39]

**127. History of Latin America.**—3 s.h. (w) ASSISTANT PROFESSOR LANNING

**130. European Expansion Overseas.**—The age of discovery and exploration, the origin and development of the great European empires overseas, and the influence of this movement on the peoples of Western Europe. 3 s.h. (w) ASSISTANT PROFESSOR MANCHESTER

**135. Main Currents in European History, 1815-1914.**—3 s.h. (w) PROFESSOR CARROLL

**136. Europe since 1914, Including the Rise of the Totalitarian States, Russia, Italy, and Germany.**—3 s.h. (w) PROFESSOR CARROLL

**141-142. The Far East.**—A survey of western contacts with China and Japan since 1515. 6 s.h. (w) ASSOCIATE PROFESSOR CLYDE

**153-154. The History of the South from Colonial Times through the Period of Reconstruction.**—6 s.h. (w) ASSOCIATE PROFESSOR SYDNOR

#### FOR SENIORS AND GRADUATES

**204. The Union, Confederacy, and Reconstruction.**—Topics considered include the rise of secession, significant military phases of the war, administrative and constitutional problems, internal economic and social conditions incidental to the war and reconstruction. 6 s.h. (w) DR. WOODY



209-210. **Constitutional History of the United States, 1763-1860.**—Old number 210. 6 s.h. (w)

ASSOCIATE PROFESSOR SYDNOR AND ASSISTANT PROFESSOR STILL

211. **The Teaching of History and the Social Studies (Education 225).**—Old number 212. 3 s.h. (w)

ASSISTANT PROFESSOR MANCHESTER

215-216. **History of the United States' Foreign Policy.**—This course traces the history of American diplomacy since 1789. Prerequisites: courses 91 and 92. 6 s.h. (w)

ASSOCIATE PROFESSOR CLYDE

[Not offered in 1938-39]

217-218. **Europe since 1870.**—International relations since the Franco-German War is the chief subject of study in this course; special emphasis is placed upon the underlying economic and political influences. Old number 217. 6 s.h. (w)

PROFESSOR CARROLL

219-220. **The History of the European Proletariat.**—This course is concerned chiefly with the origins, expansion, and organization of the industrial working classes of Europe. The following problems are emphasized: the decline of serfdom, the growth of an urban working class and social revolutions in England, France and Germany prior to the eighteenth century, the results of the Industrial Revolution, and labor movements and theories during the nineteenth and twentieth centuries. Old number 218. 6 s.h. (w)

PROFESSOR CARROLL

[Not offered in 1938-39]

223-224. **Medieval Institutions and Culture.**—A consideration of the classical heritage, the Germanic infusion, development of ecclesiastical, feudal, monarchical, and communal institutions, relations of Church and State, the rise of universities, vernacular literatures, philosophy, and art in the period 300-1300 A.D. Old number 223. 6 s.h. (w)

ASSISTANT PROFESSOR QUINN

221-222. **The Age of the Renaissance.**—A survey of social and cultural changes in Western Europe from Dante to Erasmus. Old number 222. 6 s.h. (w)

ASSOCIATE PROFESSOR NELSON

[Not offered in 1938-39]

225-226. **The Age of the Reformation.**—A survey of European civilization from 1500 through the Peace of Westphalia. 6 s.h. (w)

ASSOCIATE PROFESSOR NELSON

231. **The Hispanic Colonies of the New World.**—The development of the Iberian states as colonizing powers, the work of the conquerors, the Spanish colonial policy and system, their influences and results, native races, the international contest for supremacy, and the decay of Spanish power in America and the Philippines. Old number 232. 3 s.h. (w)

ASSISTANT PROFESSOR LANNING

232. **Hispanic Republics of the New World.**—3 s.h. (w)

ASSISTANT PROFESSOR LANNING

233. **The Cultural and Institutional History of Colonial Hispanic America.**—3 s.h. (w)

ASSISTANT PROFESSOR LANNING

[Not offered in 1938-39]

234. **Political and Social Problems in the Hispanic American Republics.**—3 s.h. (w)

ASSISTANT PROFESSOR LANNING

[Not offered in 1938-39]

241. **History of Modern Japan.**—A survey of institutional development, political, economic, and social, since 1850. 3 s.h. (w)

ASSOCIATE PROFESSOR CLYDE



**242. History of Modern China.**—A survey of institutional development, political, economic, and social, since 1840. 3 s.h. (w)

ASSOCIATE PROFESSOR CLYDE

#### DEPARTMENTAL MAJOR

*Prerequisites:* The Introductory Course in History (1-2 or 51-52).

*Major Requirements:* Students in the General Group desiring to take a major in history are required to elect twenty-four semester-hours in the Department, including six semester-hours in the Senior year from courses in the 200 group. Students desiring to take the more advanced courses in American history should elect courses 91 and 92 in the Sophomore or Junior year.

#### DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in history who have passed with a grade of "B" or better courses 1-2 in the Freshman year, 91-92 in the Sophomore year, and by the end of the Junior year twelve semester-hours selected from the courses given in the 100 group.

In the Senior year, in addition to the equivalent of fifteen semester-hours of supervised reading in history, the candidate must elect with the approval of the Departmental Committee on Honors six semester-hours of work from the courses offered in the 200 group, on which he is required to make a grade of "B" or better, and sufficient related work in other departments not exceeding nine semester-hours in the Senior year to bring the total of history and related work exclusive of courses 1-2 and 91-92 but including the equivalent of fifteen semester-hours of supervised reading to a total of 48 semester-hours.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester-hours shall be devoted to the classical historians such as Herodotus, Thucydides, Tacitus, Livy, Bede, the better known chroniclers, Machiavelli, Gibbon, Hume, Voltaire, Ranke, and others; the equivalent of nine semester-hours shall be devoted to selected fields in either American or European history as the student may elect and the Departmental Committee advise.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

#### LATIN AND ROMAN STUDIES

PROFESSOR ROSBOROUGH, CHAIRMAN; PROFESSOR ROGERS; ASSISTANT  
PROFESSOR GATES; INSTRUCTOR-ROSE

Work is offered in several branches of Roman Studies: Latin Language and Literature, Roman Art and Archaeology, Roman History, Roman Law. Students who present two entrance units in Latin should take course 3-4; those who present three entrance units should take courses 57 and 65 and follow up with courses 4 and 58 or 66, or both, the second semester; those who enter with four units of Latin should pursue course 41-42. A course for beginners, Latin 1-2 is open to all college students.

**1-2. Course for Beginners.**—Forms, vocabulary, pronunciation and syntax are emphasized the first semester, and will be followed by the reading and translating of Caesar's *Gallie War* the second semester. An effort is made to promote rapid development of power to read easy Latin with satisfaction. 6 s.h. (w)

MR. ROSE

3. **Cicero's Orations.**—Four orations including the *Manilian Law* and *Archias* are read, and attention is paid to prose style. Prerequisite: two entrance units of Latin. 3 s.h. (w) Mr. ROSE

4. **Vergil's Aeneid.**—Selections from Books I-VI, to the amount of four books or more, will be read and translated, due attention being paid to prosody. Prerequisite: three entrance units and Latin 57 taken in the semester preceding admission to the course, unless Latin 3 was taken. 3 s.h. (w) ASSISTANT PROFESSOR GATES OR MR. ROSE

65-66. **Latin Prose Composition.**—Recommended to students who are pursuing courses 3-4, 57, and 41-42, and may at the discretion of the instructor be required of such students. 2 s.h. (E) Mr. ROSE

41. **Livy's History of Rome.**—Selections from Books I, XXI, and XXII of Livy's *Ab Urbe Condita Libri*, together with selected parallel reading in English, will acquaint the student with a truly great literary artist. At the discretion of the instructor the following may be substituted for Livy: Cicero's *De Amicitia* and *De Senectute*, or Selected Prose Writers, or *Comedies* of Plautus and Terence. 3 s.h. (w & E) THE STAFF

42. **Horace.**—The Odes and Epodes. 3 s.h. (w & E) THE STAFF

53. **Sallust and Tacitus.**—The *Jugurtha* of Sallust, the *Agricola* of Tacitus. Prerequisite: Latin 41-42 or an equivalent. 3 s.h. (w or E) Mr. ROSE

54. **Catullus.**—Most of the poems will be read, and Catullus's influence on certain ancient and modern poets will be discussed. 3 s.h. (w or E) Mr. ROSE

57. **Sight Reading in Classical Latin.**—One afternoon period of an hour and a half per week devoted to practice in the reading of Latin of the classical period; designed to train students to read with facility. (See course 4) *No outside preparation is required.* 1 s.h. (E) THE STAFF

58. **Sight Reading in Mediaeval Latin.**—One afternoon period of an hour and a half per week devoted to reading interesting Mediaeval prose and poetry. Prerequisite: at least one of the following courses: Latin 3, 4, 41, 42, and 57, or an equivalent. *No outside preparation is required.* 1 s.h. (E)

PROFESSOR ROSBOROUGH

59. **Roman Law.**  
[Not offered in 1938-39]

101. **Tacitus and Suetonius.**—Selections from the *Annales* of Tacitus with parallel reading in Suetonius's *Lives of the Twelve Caesars* offer much interesting and important historical subject matter and at the same time present two notable Roman conceptions of history and the historian's task. 3 s.h. (w or E) PROFESSOR ROSBOROUGH

102. **Juvenal and Persius.**—Juvenal's literary *Satires* will form the basis of the course, and several satires of Persius will be read for comparison. Lectures on the history and development of this literary genre. 3 s.h. (w or E) PROFESSOR ROSBOROUGH

103. **The Roman Elegiac Poets.**  
[Not offered in 1938-39]

104. **Horace: The Satires and Epistles.**  
[Not offered in 1938-39]

105-106. **Martial's Epigrams; Letters of the Younger Pliny.**  
[Not offered in 1938-39]

107. **Livy: Ab Urbe Condita.**—Extensive selections from Livy's History of Rome, not duplicating parts read in course 41. 3 s.h. (E)

ASSISTANT PROFESSOR GATES

108. **Cicero's Letters.**—A considerable amount of the interesting and historically important correspondence of Cicero will be read and interpreted. 3 s.h. (E)

ASSISTANT PROFESSOR GATES

109. **Materials and Methods.**—A study of Latin in the secondary school curriculum. Course for prospective teachers of high-school Latin. Prerequisite: eighteen approved semester-hours of college Latin including courses 41, 42, 53, 54, or equivalent courses. *Required of students who plan to teach Latin in secondary schools.* 3 s.h. (E)

ASSISTANT PROFESSOR GATES

111-112. **Roman Literature in English Translation.**—A survey of Rome's literature and literary men studied through the best English translations: drama, epic, history, biography, lyric, elegy, satire, epistle, epigram, rhetoric, oratory, law, science, and philosophy. For students who need an acquaintance with Rome's influence and contribution to world literature. *No knowledge of Latin is required.* 6 s.h. (W)

PROFESSOR ROSBOROUGH

113-114. **Roman Civilization.**

[Not offered in 1938-39]

115. **The Architecture of Ancient Rome.**

[Not offered in 1938-39]

131-132. **History of Rome.**—A survey of the history of Rome from its beginnings through the Monarchy, Republic and Principate to the death of Justinian: Rome's expansion; development of the Roman constitution and public administration; a study of important features of social, legal, political, and economic problems of perennial life and interest. (*This course carries no language credit. No knowledge of Latin is required for admission.*) 6 s.h. (W)

PROFESSOR ROGERS

203-204. **Epic Poetry.**

[Not offered in 1938-39]

205-206. **Roman Drama.**—Selected comedies of Plautus and Terence, and selected tragedies of Seneca. A rapid reading course, with lectures and reports. 6 s.h. (E)

ASSISTANT PROFESSOR GATES

207-208. **Roman Philosophy.**—Cicero, Lucretius, Seneca.

[Probably not to be offered in 1938-39]

215. **Roman Art and Archaeology.**—*See course 216.*

[Not offered in 1938-39]

216. **Topography and Monuments of Ancient Rome.**—A study of the site of Rome, its development and expansion; city plan; public buildings, dwellings, theatres, fora, shops, sewers, aqueducts, etc.; materials and methods of construction. *May be offered the first semester in 1938-39.* 3 s.h. (W)

PROFESSOR ROSBOROUGH

*For other courses numbered in the 200 group, see the Bulletin of the Graduate School.*

#### DEPARTMENTAL MAJOR

*Prerequisites:* Latin 41-42, 65-66, or acceptable equivalents.

*Major Requirements:* Latin 53-54, 101-102, six semester-hours in courses numbered from 103 to 108, and six semester-hours in courses numbered from 200 to 299 to be taken in the Senior year.

In addition, all majors are expected to pursue course 131-132, History of Rome.

## LAW COURSES FOR ACADEMIC STUDENTS

PROFESSORS BOLICH, FULLER, LATTY, LOWNDES, MAGGS, POTEAT; ASSISTANT  
PROFESSOR SANDERS; INSTRUCTOR-ROALFE

The first-year program of the Law School is as follows:

L.201. Introduction to Procedure.—2 s.h.	PROFESSOR POTEAT
L.203-204. Contracts.—6 s.h.	PROFESSOR FULLER
L.205-206. Criminal Law and Its Administration.—4 s.h.	ASSISTANT PROFESSOR SANDERS
L.207-208. Chattel Transactions.—4 s.h.	PROFESSOR LATTY
L.210. Possessory Estates.—2 s.h.	PROFESSOR BOLICH
L.211-212. Torts.—5 s.h.	PROFESSOR MAGGS
L.213. Legal Bibliography.—1 s.h.	MR. ROALFE
L.214. Agency.—2 s.h.	PROFESSOR LOWNDES
Orientation.	STAFF

## MATHEMATICS

ASSOCIATE PROFESSOR GERGEN, CHAIRMAN; PROFESSOR ELLIOTT, DIRECTOR OF UNDER-  
GRADUATE STUDIES; ASSISTANT PROFESSOR MILES, SUPERVISOR OF FRESHMAN  
INSTRUCTION; PROFESSORS RANKIN AND THOMAS; ASSOCIATE PROFESSOR  
CARLITZ; ASSISTANT PROFESSORS ALDRIDGE, HICKSON, MARIA, PATTERSON,  
AND ROBERTS; INSTRUCTORS-DRESSEL AND GREENWOOD;  
AND ASSISTANTS

Credit is allowed for halves of double courses.

1-2. **Algebra and Trigonometry.**—First semester: intermediate and college algebra. Second semester: plane trigonometry. Course 1 is the normal first course for students who have had but one unit of algebra. Course 2 is the normal second course for students who have completed course 1 and who are not in the Business Administration Group. The normal second course for students in the Business Administration Group is course 3. 6 s.h. (w & e)

STAFF

3-4. **Business Mathematics.**—Topics in algebra, trigonometry and the calculus. Applications to problems in business, investment, finance, insurance, budgeting, and statistics. This is the normal first course for students who are in the Business Administration Group and who have had one and one-half units of algebra. 6 s.h. (w): course 3 each semester; course 4 each semester. (E): course 3 fall semester; course 4 spring semester.

STAFF

7-8. **First-Year Mathematics.**—First semester: essentials of college algebra and trigonometry. Second semester: introduction to analytic geometry and the differential calculus. Course 7 is the normal first course for students who have had one and one-half units of algebra and who are not in the Business Administration or Engineering Groups. Course 8 is designed primarily for students who have completed course 7 or course 1-2 and who desire only a brief introduction to analytic geometry and the calculus. Students who prefer the more detailed study of these subjects offered in courses 50, 99-100 should take course 50 rather than course 8. 6 s.h. (w & e)

STAFF

9-10. **Engineering Mathematics.**—College algebra, trigonometry, plane analytic geometry, introduction to solid analytic geometry. Designed primarily as a first course for students in the Engineering Groups. Restricted, however, to students who validate by examination their entrance units in algebra. 10 s.h. (E)

STAFF



**11-12. Engineering Mathematics.**—Intermediate and college algebra, trigonometry, plane analytic geometry, introduction to solid analytic geometry. Designed primarily as a first course for students in the Engineering Groups who do not qualify for course 9-10. Six hours of recitation each week. 10 s.h. (E) STAFF

**50. Analytic Geometry.**—Rectangular and polar coördinates; curve tracing; locus problems; straight line; the parabola, ellipse, and hyperbola; introduction to solid analytic geometry. This course normally must be preceded by course 2 or 7. It may, however, be taken as a first course by a student whose preparation is regarded adequate by the Department. Each semester. 3 s.h. (W & E) STAFF

**71. Mathematics of Investment.**—Simple and compound interest, annuities certain, amortization, sinking funds, depreciation, evaluation of bonds, life insurance. Designed primarily for students in the Business Administration Group. Prerequisite: 6 semester-hours of college mathematics. This course does not count toward a major in mathematics. 3 s.h. (W) ASSISTANT PROFESSOR HICKSON

**74. Statistics.**—Averages; measures of dispersion, skewness and correlation; probable error; curve fitting; graduation of data to type curves; index numbers. Applications to problems in business and other fields. Prerequisite: 6 semester-hours of college mathematics. This course does not count toward a major in mathematics. 3 s.h. (W) ASSISTANT PROFESSOR HICKSON

**99-100. Differential and Integral Calculus.**—First half [Differential Calculus]: differentiation of elementary functions; curve tracing; maxima and minima problems; differentials; curvature; motion problems; partial differentiation. Second half [Integral Calculus]: indefinite integrals; the integral as a limit of a sum; applications to areas, volumes, centroids, etc.; infinite series; multiple integrals. Prerequisite: course 50 or the equivalent. 8 s.h. (W): course 99 each semester; course 100 each semester. (E): course 99 each semester; course 100 spring semester. STAFF

**131. Elementary Differential Equations.**—Solution of elementary types; formation and integration of equations arising in applications. Prerequisite: course 100. 3 s.h. (W) PROFESSOR ELLIOTT

**139-140. Advanced Calculus.**—Multiple integrals, partial differentiation, Taylor's theorem, envelopes, line integrals, Green's theorem, ordinary and partial differential equations, improper integrals, complex numbers. Prerequisite: course 100. 6 s.h. (W) ASSOCIATE PROFESSOR GERGEN

**160. Elementary Solid Analytic Geometry.**—Cartesian and tetrahedral coördinates, configurations of planes and straight lines, quadric surfaces, algebraic curves. Prerequisite: course 99. 3 s.h. (W) PROFESSOR ELLIOTT

**161-162. Reading Course for Juniors.**—Open only to Juniors reading for Honors in Mathematics. Material, credit, and hours arranged in consultation with tutor. See the Departmental Honors Program. STAFF

**163-164. Reading Course for Seniors.**—Open only to Seniors reading for Honors in Mathematics. Material, credit, and hours arranged in consultation with tutor. See the Departmental Honors Program. STAFF

FOR SENIORS AND GRADUATES

**201. History of Mathematics.**—Evolution of the number system, arithmetic, geometry, algebra, trigonometry, analytic geometry, calculus, and modern geometry. Brief sketches of mathematicians. 3 s.h. (E) PROFESSOR RANKIN

[Not offered in 1938-39]

**204. Teaching of Mathematics.**—Fundamental processes, methods of study, mathematical literature, content of courses, applications, correlation of different branches. Must be preceded or accompanied by course 100. 3 s.h. (E)

PROFESSOR RANKIN

**207. Fundamental Concepts of Algebra and Geometry.**—The concepts: number, variable, function, limit, group, definition, axiom, space, proof. Prerequisite: course 100. 3 s.h. (E)

PROFESSOR RANKIN

**225-226. Theory of Equations.**—Permutations, determinants, matrices, linear systems, polynomials and their roots, constructibility, symmetric functions, resultants, discriminants, simultaneous equations, Galois theory. Prerequisite: course 99. 6 s.h. (w)

[Not offered in 1938-39]

**227-228. Theory of Numbers.**—Congruences, arithmetic functions, compound moduli, quadratic reciprocity, Gauss sums, quadratic forms, sums of squares. Prerequisite: course 100. 6 s.h. (w)

ASSOCIATE PROFESSOR CARLITZ

**229-230. Algebraic Numbers.**—Ideals, unique factorization, divisors of the discriminant, determination of the class number. Prerequisite: course 225. 6 s.h. (w)

ASSOCIATE PROFESSOR CARLITZ

[Not offered in 1938-39]

**235-236. Modern Algebra.**—Groups, fields, rings, matrices, quadratic and bilinear forms, general Galois theory, hypercomplex systems. Prerequisite: course 99. 6 s.h. (w)

PROFESSOR THOMAS

**250. Modern Geometry.**—Properties of the triangle, transversals, harmonic properties of figures, poles, polars, inversion. Prerequisite: course 99. 3 s.h. (E)

PROFESSOR RANKIN

[Not offered in 1938-39]

**252. Non-Euclidean Geometry.**—Geometry of Bolyai and Lobachevsky. Prerequisite: course 100. 3 s.h. (w)

ASSISTANT PROFESSOR ROBERTS

[Not offered in 1938-39]

**255-256. Projective Geometry.**—Postulational, synthetic treatment centering around Desargues' theorem and the principle of projectivity. Conics, coordinates, order, continuity, metric properties. Prerequisite: course 99. 6 s.h. (w)

ASSOCIATE PROFESSOR CARLITZ

[Not offered in 1938-39]

**275. Probability.**—Combinatory analysis, mean values, Bernoulli's theorem, probability integral. Applications to statistics. Prerequisite: course 100. 3 s.h. (w)

[Not offered in 1938-39]

**281. Elementary Potential Theory.**—Newtonian potentials, vector fields, Dirichlet and Neumann problems. Prerequisite: course 100. 3 s.h. (w)

ASSISTANT PROFESSOR MILES

**282. Differential Equations of Mathematical Physics.**—Hamilton-Jacobi equation, heat equation, wave equation, telegraphic equation, Schrödinger's equation. Prerequisite: course 100. 3 s.h. (w)

DR. DRESSEL

**283. Fourier Series and Spherical Harmonics.**—Fourier series and integral, Legendre polynomials, spherical harmonics, Bessel functions. Applications to mathematical physics. Prerequisite: course 100. 3 s.h. (w)

[Not offered in 1938-39]



**284. Vector Analysis.**—Vectors in three-dimensional Euclidean space with applications to physics; introduction to tensor analysis. Prerequisite: course 100. 3 s.h. (w)

[Not offered in 1938-39]

**287. Mathematical Logic.**—Boole-Schroeder algebra of logic, system of Principia Mathematica, strict and material implication. 3 s.h. (w)

[Not offered in 1938-39]

**288. Foundations of Mathematics.**—Postulates for groups, fields, rings, Boolean algebras. 3 s.h. (w)

[Not offered in 1938-39]

**291-292. Theory of Functions.**—Fundamental concepts in the theory of functions of real and complex variables. Limits, continuous functions, Riemann integrals, implicit functions, power series, double series, linear transformations, elementary functions, Cauchy's theorem and its applications, entire functions, residues, Riemann surfaces, conformal mapping. Prerequisite: course 140. 6 s.h. (w)

#### DEPARTMENTAL MAJOR

*Prerequisites:* Six semester-hours of Freshman mathematics.

*Major Requirements:* Courses 50, 99-100, and twelve semester-hours in courses numbered above 100. These twelve hours must be approved by the Department through the Director of Undergraduate Studies.

#### DEPARTMENTAL HONORS PROGRAM

Candidates for Honors in mathematics should have a practical reading knowledge of French and German. A deficiency in either should be made up, if possible, during the Junior year.

*Prerequisites:* A student who has completed course 99 and who has earned an average grade of "B" or better in his courses in mathematics may become a candidate for Honors.

##### *Honors Work:*

(a) *Work in Mathematical Courses:* To graduate with Honors a candidate must complete, with an average grade of "B" or better, a minimum of eighteen semester-hours of work in courses numbered 100 or above. At least six of these eighteen hours must be in courses numbered 200 or above.

(b) *Tutorial Work:* During the Honors program a candidate studies special topics in mathematics under the personal supervision of a tutor. A candidate must earn a minimum of six semester-hours of credit for this tutorial work. He cannot earn more than ten semester-hours for this work nor more than thirty-four semester-hours for his course work in mathematics and his tutorial work combined.

(c) *Work in Courses in Related Fields:* A candidate must earn a sufficient number of semester-hours of credit in courses in related fields to complete with the credit obtained in (a) and (b) the forty-nine semester-hours required in the Honors Group.

A candidate's program must be approved by the Departmental Honors Adviser.

*General Honors Examination:* At the end of the Senior year each candidate reading for Honors in mathematics must take a comprehensive examination on his Honors program. This examination may be written, oral, or both. Faculty members from other departments and other institutions may be invited to participate in this examination.

## MUSIC

MR. BROADHEAD

**63. History of Music to Beethoven.**—Study of the development of music from its origins through the primitive, ancient, medieval, polyphonic, and classic periods; showing the evolution of our present system of tonality. Illustrated. Not open to Freshmen. Open to men and women. 3 s.h. (E)

MR. BROADHEAD

**64. History of Music from Beethoven to the Present.**—The romantic and post-romantic periods of the nineteenth century. Music in America. Twentieth-century tendencies. Illustrated. Not open to Freshmen. Open to men and women. 3 s.h. (E)

MR. BROADHEAD

**111-112. Harmony.**—An appreciation of harmonic structure through practice in composition. Notation, scales, intervals, triads, chords of the seventh; harmonization of melodies, figured and unfigured basses; modulation, ornaments. The elements of form; the construction of original works in the simpler forms for voices and instruments. Open to men and women with the approval of the instructor. 6 s.h. (E)

MR. BROADHEAD

## PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN; ASSOCIATE PROFESSOR MORGAN, DIRECTOR OF UNDERGRADUATE STUDIES; DR. McLARTY, SUPERVISOR OF FRESHMAN INSTRUCTION; ACTING PROFESSOR DUBS; PROFESSORS GILBERT, SMITH, AND STERN; AND ASSISTANT PROFESSOR LEONARD

*For courses marked \* there is a prerequisite of three hours, and those marked † six hours of philosophy; admission otherwise by permission of the instructor. Sophomores may in general take courses prescribed for Juniors by permission of the instructor.*

**48. Introduction to Logic and Scientific Method.**—A practical study of the general principles of logical thinking: the nature of the logical processes involved in the attainment of knowledge in mathematics, the sciences, history, and philosophy. The character of systematic exposition. Application of the logical processes studied to the field of action. 3 s.h. (w)

ASSISTANT PROFESSOR LEONARD

**98. Introduction to Ethics.**—An elementary consideration of some of the important moral problems in the light of philosophical tradition and the science of values. Sophomores and approved Freshmen. First semester (w). Second semester (E). 3 s.h.

PROFESSOR GILBERT AND ASSOCIATE PROFESSOR MORGAN

**101. Introduction to Philosophy.**—This course is intended to acquaint the student with the nature of philosophical problems. First semester (w) and (E). Second semester (w). 3 s.h.

(w) PROFESSOR WIDGERY (first semester)

DR. McLARTY (second semester)

(E) PROFESSOR GILBERT

**105. Introduction to the History of Philosophy: Ancient and Medieval.**—A study of the great philosophical thinkers with special reference to the problems of a philosophy of human life. 3 s.h. (w)

DR. McLARTY

**106. Introduction to the History of Philosophy: Modern.**—A study of the great philosophical thinkers with special reference to the problems of a philosophy of human life. 3 s.h. (w)

DR. McLARTY

108. Philosophical Ideas in Ancient Greek and Roman Culture.

DR. McLARTY

109-110. Plato.—*Apology*, *Crito*, and selections, together with collateral reading in the *Memorabilia* of Xenophon and in the *Clouds* of Aristophanes. Euripides.—One play, to serve as an introduction to Greek tragedy. 6 s.h. (w) Greek 107-108. ASSISTANT PROFESSOR WAY

111. Seventeenth-Century Philosophy, with Special Reference to Spinoza.\*—(Second semester.) 3 s.h. (E) PROFESSOR GILBERT

112. The Development of American Philosophy.\*—3 s.h. (w) ASSOCIATE PROFESSOR MORGAN

119. Fundamentals of Christian Morality: An Introduction to Christian Ethics.—3 s.h. (w) DR. McLARTY

121. The Philosophy of Plato.—Lectures, readings and reports. Reference will be made to some influences of Platonic modes of thought in English literature. 3 s.h. (w) DR. McLARTY

FOR SENIORS AND GRADUATES

201-202. The Philosophy of Art.—Study of the various phases of the aesthetic experience and forms of beauty with analysis of examples. Particular attention will be given to recent writers on aesthetics. 6 s.h. (E) PROFESSOR GILBERT

203. The Philosophy of Conduct.—A critical study of the fundamental problems of ethics. 3 s.h. (w)† ASSOCIATE PROFESSOR MORGAN

204. Christian Ethics.—A historical and systematic study of Christian conceptions of the moral life and its problems. 3 s.h. (w) PROFESSOR SMITH

205. The Philosophy of History.—An inquiry into the logic and methodology of the knowledge of history, and into the metaphysical implications of history. 3 s.h. (w) PROFESSOR WIDGERY

206. Modern Political Theory.—Political theories of the seventeenth, eighteenth, and nineteenth centuries, with a study of their influence upon modern political institutions. 3 s.h. (w) Political Science 224. PROFESSOR WILSON

207. Political Thought to the Seventeenth Century.—A survey of political thought from the time of Plato to the close of the sixteenth century, with emphasis upon concepts of continuing importance. 3 s.h. (w) Political Science 223. PROFESSOR WILSON

208. Political Philosophy.—A critical investigation of the bases of political authority and of the ideals of political organization, with reference to prevalent political systems. 3 s.h. (w) ASSOCIATE PROFESSOR MORGAN

209-210. The Philosophy of Religion.—A critical consideration of the data of empirical religion and the constructive development of a modern philosophy of religion. 6 s.h. (w) PROFESSOR WIDGERY  
[Not offered in 1938-39]

212. Psychology of Belief.—2 s.h. (w) Psychology 228. ASSOCIATE PROFESSOR LUNDHOLM

**213-214. History of Aesthetics.**—The tracing of the historical solutions of traditional problems, such as the nature of imitation, symbolism, the ugly, the sublime, and the comic, the relation of art to nature, to morals, and to economics, the relation of the particular arts to each other, the standard of taste. 6 s.h. (E)

PROFESSOR GILBERT

[Not offered in 1938-39]

**215-216. Plato.**—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h. (w) Greek 209-210.

ASSISTANT PROFESSOR WAY

**217. The Philosophy of Aristotle.\***—Prerequisite: course 105.

[Not offered in 1938-39]

DR. McLARTY

**219-220. The Age of the Renaissance.**—A survey of social and cultural changes in Western Europe from Dante to Erasmus. 6 s.h. (w) History 221-222.

ASSISTANT PROFESSOR NELSON

**222. Philosophical and Psychological Problems of Critical Personalism.**—2 s.h.

PROFESSOR STERN

[Not offered in 1938-39]

**224. Contemporary Philosophy.**—A study of the leading philosophical movements in Europe and America in the last fifty years. 3 s.h. (w)†

PROFESSOR WIDGERY

**226. The History of Ethics.**—Theories of morality from Socrates to the present time. 3 s.h. (w)\*

ASSOCIATE PROFESSOR MORGAN

[Not offered in 1938-39]

**227. Mathematical Logic.**—3 s.h. (w) Mathematics 287.

[Not offered in 1938-39]

**228. Fundamental Concepts of Mathematics.**—3 s.h. (w) Mathematics 288.

[Not offered in 1938-39]

**229-230. Contemporary Physics.**—A course which covers in a descriptive manner the fundamental concepts and experimental basis of modern theories of the structure of matter. 6 s.h. (w) Physics 213-214.

ASSISTANT PROFESSORS NIELSEN AND CONSTANT AND DR. MOUZON

**231-232. Philosophy of Science.**—A historical and critical survey of the relations of natural science to general philosophy.

ASSISTANT PROFESSOR LEONARD

**234. Introduction to the Philosophy of Education.**—3 s.h. (w) Education 200.

PROFESSOR HOLTON

**236. Oriental Philosophy.**—I. Chinese Philosophy. 3 s.h. (w)

ACTING PROFESSOR DUBS

[Not offered in 1938-39]

**238. Oriental Philosophy.**—II. Indian Philosophy. 3 s.h. (w)

PROFESSOR WIDGERY

**241. Logic.**—The characteristic structure of a logical system. Forms of propositions and of arguments. Logical relations of propositions. Levels of analysis. 3 s.h. (w)

ASSISTANT PROFESSOR LEONARD

**242. Scientific Methodology.**—A survey of the methods used in the different branches of the natural and social sciences in seeking and testing knowledge. 3 s.h. (w)

ASSISTANT PROFESSOR LEONARD

244. *European Thought in the Latter Half of the Nineteenth Century, with Special Reference to Nietzsche.*—Studies in the major trends of intellectual life of the period, focussed around the work of a representative thinker. Prerequisite: 6 hours; admission otherwise by permission of the instructor. A reading knowledge of German is desirable. 3 s.h. (w)

ASSOCIATE PROFESSOR MORGAN

245-246. *Philosophical Foundations of Religious Belief.*—6 s.h.

ACTING PROFESSOR DUBS

248. *Philosophy of Values.*—2 s.h.

PROFESSOR STERN

#### DEPARTMENTAL MAJOR

The student is required to take courses amounting to at least eighteen credit hours in the Department. Of these six must be Philosophy 105-106, Introduction to the History of Philosophy; and six must be from courses in the 200 series. The student is advised to consult with an instructor in the Department as to the courses most suitable to fit in his general plan of study.

#### DEPARTMENTAL HONORS PROGRAM

a. For admission to candidacy for Honors in philosophy, the student at the close of his Sophomore year must have obtained in that year grades of "A" or "B" in courses which in the judgment of the Departmental Committee justify his admission as a candidate for Honors in philosophy.

b. Candidates for Honors shall complete the following program of work: six credit hours in the following subjects: 1. Introduction to Philosophy; 2. Introduction to the History of Philosophy; 3. Logic and Scientific Methodology; 4. Philosophy of Conduct and Christian Ethics; 5. Aesthetics; or Philosophy of History and Political Philosophy; or Philosophy of Religion. By permission of the Departmental Committee a student may substitute for some of the above-mentioned courses others from the departmental list of courses which may in the opinion of the Committee be more suitable in his individual case.

c. Candidates must complete courses totaling not less than six credit hours in one of the following fields; such courses to be in the 200 series: mathematics, physics, biology, psychology, sociology, economics, political science, psychology of religion.

d. Candidates will be allowed thirteen credit hours for directed and supervised reading around a special subject upon which an essay must be prepared for submission not later than May 15 of the year of graduation.

e. Candidates will be given a comprehensive examination sometime in the latter half of May in the year of graduation; such examination to be five three-hour papers upon subjects selected from those mentioned above, such selection to be by the particular Honors supervisor in consultation with the student.

#### PHILOSOPHY IN DIVISIONAL HONORS

Philosophy is included in the programs for Divisional Honors in:

(A) Humanities (with English Literature and Fine Arts).

(B) Social Sciences (with Economics and Political Science).

For details concerning these Divisional Honors, see pages 00-00.

The philosophical section will include supervised readings and tutorial instruction, as follows:

(A) The Humanities:

(1) Greek Philosophy.

(2) Aesthetics.

DR. McLARTY  
PROFESSOR GILBERT

(B) The Social Sciences:

(1) Ethics.

(2) Social Philosophy.

DR. McLARTY  
ASSOCIATE PROFESSOR MORGAN



## PHYSICS

PROFESSOR NIELSEN, CHAIRMAN; PROFESSOR HATLEY, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR CARPENTER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS EDWARDS, NORDHEIM, SPONER; ASSISTANT PROFESSORS CONSTANT AND MOUZON; INSTRUCTOR-BONNER; AND ASSISTANTS

The first course in physics deals largely with those fundamental facts and theories concerning the physical universe that are supposed to be of interest to every intelligent person, and the matter presented is within the comprehension of every college student.

The courses in physics after the first year are designed to meet the needs of three classes of students: (1) those desiring to specialize in physics with a view to work in teaching or investigation; (2) those intending to pursue the study of medicine, biology, or chemistry; (3) those looking forward to the study of engineering. The work of the first year is designed to lay a broad foundation for subsequent study.

An elementary knowledge of the calculus and credit for 12 semester-hours in physics is required in all courses numbered 200 and above.

**1-2. Introductory Physics.**—This course traces historically and experimentally the development of great principles. It stresses neither mathematical processes nor exact measurements. This course is open to Freshmen, Sophomores, and Juniors and meets the general science requirement. Three-hour recitation and two-hour laboratory. 8 s.h. (W & E)

ASSISTANT PROFESSOR CARPENTER; PROFESSORS EDWARDS AND HATLEY; AND ASSISTANTS

**51-52. General Physics.**—This course is designed for Sophomores and Juniors. It meets in a thorough way the requirements for entrance into the study of medicine and is well suited for the general science student. A limited number of Freshmen who present physics for entrance and who are taking the required mathematics concurrently may be admitted by permission of the instructor. Three lectures and two laboratory periods each week. Prerequisite: Mathematics 7-8 or equivalent. 10 s.h. (W)

PROFESSOR HATLEY; ASSISTANT PROFESSOR CARPENTER; AND ASSISTANTS

**57-58. Physics for Engineers.**—A course in general physics which gives special emphasis to engineering problems. Open to Sophomores who have completed trigonometry. Four-hour recitation and three-hour laboratory. 10 s.h. (E)

ASSISTANT PROFESSOR MOUZON AND ASSISTANT

**59-60. Elementary Atomic Physics.**—A lecture and demonstration course dealing in a descriptive manner with modern developments in physics. During the second semester particular emphasis will be placed on the specific applications of the results and methods of modern physics to the fields of medicine and industry. 6 s.h. (W)

PROFESSOR NIELSEN

**61. Mechanics.**—This course covers in a thorough manner the more advanced phases of mechanics which do not require the use of the calculus. Special emphasis is placed on the solutions of problems in mechanics. Prerequisite: a year course in general college physics. 3 s.h. (W)

ASSISTANT PROFESSOR CARPENTER

**62. Heat.**—This course covers the principles of heat in a more thorough manner than is possible in general physics and is a preparation for more advanced courses in the study of heat. Prerequisite: a year course in general physics. 3 s.h. (W)

ASSISTANT PROFESSOR CARPENTER



**65-66. Intermediate Physics.**—Lecture demonstrations and recitations. A course, to follow Physics 1-2 or its equivalent, covering selected topics and including a more advanced treatment of electricity and light during the first term and in the second term an extended treatment of conduction of electricity through gases, electron theory of matter, x-rays, radioactivity, thermionics, electric waves and photo-electricity. Prerequisite: Physics 1-2 or its equivalent. 6 s.h. (w)  
PROFESSOR EDWARDS

**103. Electricity and Magnetism.**—An intermediate course covering electrostatics, magnetostatics, current theory, electromagnetism and electron theory, with numerous problems designed to give a thorough familiarity with the subject. Prerequisite: a year course in general college physics. 3 s.h. (w)  
ASSISTANT PROFESSOR CONSTANT

**104. Electrical Measurements.**—Exact measurements of resistance, current, voltage, inductance and capacity. A fundamental course in electrical engineering or course 103 is a prerequisite. Two lectures and one three-hour laboratory period per week. 3 s.h. (w)  
PROFESSOR NIELSEN AND ASSISTANT PROFESSOR CONSTANT

**106. Photography.**—A quantitative study of the more important photographic processes and the application of photography to the sciences and arts. Two lectures and one two-hour laboratory period. Prerequisite: a year course in general physics and the consent of the instructor. 3 s.h. (w)  
MR. ———

**203-204. Analytical Mechanics.**—Geometry of motion; kinematics of a particle and of a rigid body; statics; relative motion; general principles of mechanics. 6 s.h. (w)  
ASSISTANT PROFESSOR MOUZON

**205-206. Physical Optics.**—This course deals with interference diffraction, polarization, absorption, dispersion; in general it will cover those topics treated in a text such as Wood's *Physical Optics*. Two lectures and one three-hour laboratory period per week. 6 s.h. (w)  
PROFESSOR HATLEY

**211. History of Physics.**—A rapid review of the fundamental laws of physics developed from the historical point of view. 2 s.h. (w)  
PROFESSOR EDWARDS

**213-214. Contemporary Physics.**—A course which covers in a descriptive manner the fundamental concepts and experimental basis of modern theories of the structure of matter. 6 s.h. (w)  
ASSISTANT PROFESSOR CONSTANT

**215-216. Atomic Physics Laboratory.**—Some of the more important experiments which form the basis of modern atomic theory. Special emphasis is placed on experimental technique, valuable in original physical investigations. 2 s.h. (w)  
PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

**217-218. Advanced General Physics Laboratory.**—Exact measurements involving the fields of mechanics, electrical measurements, heat, and pyrometry. 2 s.h. (w)  
PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

**221-222. Introduction to Theoretical Physics.**—Lectures and problems on the fundamental principles and mathematical theory of the general field of physics, constituting a thorough foundation for subsequent specialization and more intensive study. 6 s.h. (w)  
ASSISTANT PROFESSOR CONSTANT

## DEPARTMENTAL MAJORS

A. For the degree of A.B.

*Prerequisites:* Physics 1-2 or 51-52 or 57-58 and Mathematics 1-2 or 7-8 or the equivalent.

*Major Requirements:* The student must have 12 s.h. from Physics 59, 60, 61, 62, 103, 104 and must complete 203-204 and 213-214.

B. For the degree of B.S.

*Prerequisites:* Physics 1-2 or 51-52 or 57-58 and Mathematics 1-2 or 7-8 or the equivalent and Chemistry 1-2.

*Major Requirements:* The student must have had 6 s.h. from Physics 59, 60, 61, 62, 103, 104 and must complete 213-214, 215-216 and 221-222.

## DEPARTMENTAL HONORS PROGRAM

*Prerequisites:* Physics 1-2 or 51-52 or 57-58; Chemistry 1-2 and Mathematics 1-2 or 7-8 or the equivalent.

*Honors Work:* Physics 103-104, 215-216, and 221-222; Mathematics 99-100 and either a course in geology or an advanced course in chemistry, botany, zoology or a mathematics course beyond integral calculus.

In addition, the student will arrange with his Adviser for the performance of a limited number of elementary physical investigations. This will consist of both readings and experimental work which in general will constitute a survey of the classical and modern aspects of physics. The credit allowed for this may range from 9 to 10 hours depending upon the amount and quality of the work done.

At the end of both the Junior and Senior years the student will be given both an oral and a written examination in the field of physics.

## POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN; PROFESSOR RANKIN, DIRECTOR OF UNDERGRADUATE STUDIES; DR. GIBSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR VON BECKERATH; ASSOCIATE PROFESSOR COLE; INSTRUCTORS—LINEBARGER AND SIMPSON

21. **Principles of Government.**—An introductory study of the principles and problems of government in general. Elective for Freshmen. 3 s.h. (w & e)  
DR. GIBSON

22. **Governmental Problems in International Relations.**—An introductory study of current problems of international co-operation in relation to national policies of major powers. Elective for Freshmen. 3 s.h. (w & e)

DR. GIBSON AND DR. LINEBARGER

61-62. **American Government and Politics.**—A study of the American political system, including the organization and functioning of national, state, and local government in the United States. 6 s.h. (w & e)

PROFESSORS RANKIN AND WILSON; ASSOCIATE PROFESSOR COLE; DR. GIBSON, DR. LINEBARGER, DR. SIMPSON

Course 61-62 is ordinarily taken before any advanced course in political science. Students who have not had course 61-62 or its equivalent may be admitted to advanced courses in the Department only with the approval of the instructors concerned.

113. **Colonialism and Nationalism in Northern and Southeastern Asia.**—A study of indirect rule, native institutions, and self-determination in the Asiatic regions indicated. 3 s.h. (w)  
DR. LINEBARGER

**125. American Political Parties and Practical Politics.**—A study of the historical development, organization, and methods of political parties in the United States. 3 s.h. (w)  
ASSOCIATE PROFESSOR COLE

**136. Major European Governments.**—A study of the organization and functioning of the governments of Great Britain, France, Germany, Italy, and Russia. 3 s.h. (w)  
ASSOCIATE PROFESSOR COLE

**164. Government Control of Railroads.**—A comparative study of government ownership, operation and regulation of railroads in certain modern states, with primary attention to the powers, activities and inter-relationships of regulatory bodies in the United States. 3 s.h. (w)  
ASSOCIATE PROFESSOR COLE

[Not offered in 1938-39]

**172. Government and Agriculture.**—A comparative study of national agricultural policies in Great Britain, Germany, Italy, France and the United States in the nineteenth and twentieth centuries. 3 s.h. (w)  
PROFESSOR VON BECKERATH

**207. American Constitutional Law and Theory.**—A study of leading principles of American government, as developed through judicial interpretation of the Constitution. 3 s.h. (w)  
PROFESSOR WILSON

**209. State and Local Government in the United States.**—A study of the historical development of state and local governments, their present organization, their relation to each other and to the federal government. 3 s.h. (w)  
PROFESSOR RANKIN

**211. Political Institutions of the Far East.**—A study of the governmental systems of Japan, Korea and China from the earliest times to the present. 3 s.h. (w)  
DR. LINEBARGER

**212. International Politics of the Far East.**—A study of changing power relationships in the Orient since the arrival of the Europeans. 3 s.h. (w)  
DR. LINEBARGER

**223. Political Thought to the Seventeenth Century.**—A survey of political thought from the time of Plato to the close of the sixteenth century. 3 s.h. (w)  
PROFESSOR WILSON

[Not offered in 1938-39]

**224. Modern Political Theory.**—Political theories of the seventeenth and eighteenth centuries, and of the first half of the nineteenth, with a study of their influence upon modern political institutions. 3 s.h. (w)  
PROFESSOR WILSON

[Not offered in 1938-39]

**225-226. Comparative Government.**—A comparative study of modern political institutions, with special reference to bureaucracy, federalism, fascism, dictatorship, constitutions, representation, parliamentarism, and separation of powers. 6 s.h. (w)  
ASSOCIATE PROFESSOR COLE

**227-228. International Law and International Organization.**—Elements of international law, and a study of certain international organizations from the point of view of their significance for international law. 6 s.h. (w)  
PROFESSOR WILSON

**229. Recent and Contemporary Political Theory.**—A study of the more significant contributions to the theory of government from 1850 to the present. 3 s.h. (w)  
ASSOCIATE PROFESSOR COLE

**230. American Political Institutions.**—A study of the formation and development of institutions of the national government in the United States, with historical and analytical treatment. **3 s.h. (w)** PROFESSOR RANKIN

**241-242. Principles of Public Administration.**—A study of governmental techniques, personnel and financial administration, and administrative law. **6 s.h. (w)**

**244. Problems in Public Administration.**—A study of selected phases of public administration, including budgetary, taxation and accounting methods. **3 s.h. (w)**

**271. Socio-Politics and Capitalism.**—Western European and American social policy in legislation from the early nineteenth century to the World War, and socio-political developments in the post-War world. **3 s.h. (w)**

PROFESSOR VON BECKERATH

**291. Municipal Government.**—A study of general problems relating to the structural system and activities of municipalities in the United States. **3 s.h. (w)** PROFESSOR RANKIN

**292. Municipal Administration.**—A study of principles and methods of municipal administration in the United States. **3 s.h. (w)**

PROFESSOR RANKIN

[Not offered in 1938-39]

#### DEPARTMENTAL MAJOR

*Prerequisite:* Political Science 61-62.

*Major Requirements:* Eighteen semester-hours of work in the Department above Course 61-62, including at least nine semester-hours in Senior-Graduate courses. Courses 21 and 22 may not be counted toward a major.

#### HONORS WORK

The Departments of Political Science, Economics, and Philosophy form an Honors Group within the Division of the Social Sciences. For the details of this program, the student should consult pages 55-56.

Honors readings in political science are as follows:

**Comparative Government.**—The theory and practice of modern European dictatorships and democracies. ASSOCIATE PROFESSOR COLE

**Political Theory.**—A consideration of political theory from the French Revolution to the present, with particular reference to American contributions. ASSOCIATE PROFESSOR COLE

**Government Regulation and Industry.**—A consideration of various problems, primarily legal and administrative, involved in the governmental regulation of industry in the United States. STAFF

#### PSYCHOLOGY

PROFESSOR MCDUGALL, CHAIRMAN; ASSOCIATE PROFESSOR ZENER, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS LUNDHOLM, RHINE, AND STERN; ASSISTANT PROFESSOR ADAMS; INSTRUCTORS—MCCULLOCH AND PRATT

**\*101. Introduction to Psychology: General Principles of Mental Activity.**—**3 s.h.**

\* This course is a prerequisite for all other courses in psychology. It is not open to students of lower standing than Juniors, except Sophomores who have made an average grade of "B" or better.

Section 1 and 2 (w), fall semester.

PROFESSOR LUNDHOLM AND ASSOCIATE PROFESSOR ZENER

Section 3 (E), spring semester.

DR. PRATT

**102. Introduction to Psychology: With Special Reference to the Life and Growth of Intellect.—3 s.h. (w)**

ASSOCIATE PROFESSOR ZENER

[Not offered in 1938-39]

**104. Comparative Psychology.—3 s.h. (w)**

ASSISTANT PROFESSOR ADAMS AND DR. McCULLOCH

*In 1938-39 this course will be offered in the fall semester only.*

**107-108. Psychological Analysis of Prominent Characters in Literature.—Selected Seniors and Juniors only. 2 s.h. (w)**

PROFESSOR LUNDHOLM

**114. Psychology of Personality.—3 s.h. (w)**

PROFESSOR RHINE

**115. Introduction to Child Psychology.—3 s.h. (w)**

ASSISTANT PROFESSOR ADAMS

*In 1938-39 this course will be offered in the spring semester only.*

**201. Social Psychology.—2 s.h. (w)**

PROFESSOR McDOUGALL

[Not offered in 1938-39]

**202. Psychology of Aesthetics.—3 s.h. (w)**

PROFESSOR LUNDHOLM

**204. Psychology of Motivation.—3 s.h. (w)**

ASSOCIATE PROFESSOR ZENER

**205. General Psychology (Activity, Feeling, Willing).—2 s.h. (w)**

PROFESSOR STERN

**207. Experimental Psychology.—Experimental and theoretical contributions to the psychology of perceiving, thinking, remembering. 3 s.h. (w)**

ASSOCIATE PROFESSOR ZENER

*In 1938-39 this course will be offered in the spring semester only.*

**209. Advanced Laboratory Methods in Psychology, with Lectures.—Seniors with permission of instructor. 4 s.h.**

ASSOCIATE PROFESSOR ZENER

**211. Neurological Foundations of Behavior: A Comparative Study of the Structure and Function of the Nervous System in Relation to Behavior.—Lectures and laboratory. Seniors with permission of instructor. 4 s.h. (E)**

ASSOCIATE PROFESSOR ZENER

[Not offered in 1938-39]

**212. Developmental Psychology.—(Psychology of Childhood and Youth.) 3 s.h. (w)**

PROFESSOR STERN

**216. Seminar in Comparative Psychology.—2 or 3 s.h. (w)**

ASSISTANT PROFESSOR ADAMS AND DR. McCULLOCH

**217. Gestalt Theory.—3 s.h. (w)**

ASSISTANT PROFESSOR ADAMS

[Not offered in 1938-39]

**219. History of Psychology.—2 s.h. (w)**

PROFESSOR McDOUGALL



222. Philosophical and Psychological Problems of Critical Personalism.—  
2 s.h. (w) PROFESSOR STERN  
[Not offered in 1938-39]

223. Abnormal Psychology.—3 s.h. (w) PROFESSOR LUNDHOLM

226. Contemporary Schools of Psychology.—Graduates and Seniors with  
permission of instructor. 3 s.h. (w) ASSOCIATE PROFESSOR ZENER  
[Not offered in 1938-39]

228. Psychology of Belief.—2 s.h. PROFESSOR LUNDHOLM

229. Seminar in Child Psychology.—2 or 3 s.h. PROFESSOR STERN

230. Seminar on Personalistic Psychology.—2 or 3 s.h. PROFESSOR STERN

- 231-232. Introduction to Research.—Open to Seniors after consultation  
with the staff member supervising the research. 2 or 3 s.h.  
PROFESSORS McDUGALL, LUNDHOLM, RHINE AND STERN; ASSOCIATE  
PROFESSOR ZENER; ASSISTANT PROFESSOR ADAMS

233. Social Psychology of Value and Valuation.—2 s.h. (w)  
PROFESSOR McDUGALL

#### DEPARTMENTAL MAJOR

*Prerequisites:* Zoology 1 and 2 or Botany 1 and 2, or equivalent courses in biology.

*Major Requirements:* Psychology 101 and fifteen hours of psychology in other courses, including not less than six semester-hours in Senior-Graduate courses.

Students proposing to major in psychology are advised to consult with some member of the Department before registering, or as soon as possible afterwards.

#### DEPARTMENTAL HONORS PROGRAM

A. For admission to candidacy for Honors in psychology, the student must have completed the following courses: Psychology 101,\* Zoology 1 and 2 or Botany 1 and 2 or approved equivalents.

B. Candidates for Honors shall complete:

I. Courses in psychology (*in addition to Psychology 101*) amounting to 18 semester-hours, of which courses not less than 3 shall be Senior-Graduate courses.

II. The candidate shall concentrate, under the advice of a member of the Department, in one of the three following divisions: Humanities, Social Sciences, Natural Sciences.

III. The candidate shall be assigned by his Departmental Supervisor, special reading in some defined field of psychology, and toward the end of his Senior year shall submit to the Department a written thesis on some topic within the special field defined.

IV. Upon the completion of the above requirements to the satisfaction of the Departmental Committee, the candidate will, at the close of the Senior year, be admitted to the General Honors examination (partly oral, partly written) by the Committee. The examination will cover the whole field of psychology, with particular emphasis on the field in which the candidate has done special reading.

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\* May be taken as Summer School course at end of Sophomore year.

## RELIGION

PROFESSOR MYERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR CRUM, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BRANSCOMB, CANNON, GARBER, HICKMAN, ORMOND, RUSSELL, SMITH, AND SPENCE; ASSISTANT PROFESSORS CLARK, PETRY, AND STINESPRING; INSTRUCTOR-SPENCE

The courses approved to fulfill the requirement in Religion are: 1-2, 51-52, 101-102, 103-104, 115-116, 163, 167, 169-170, 181-182, 203-204, 213-214, 270, 275-276, 285. Philosophy 119 (Fundamentals of Christian Morality), 203 (Philosophy of Conduct), 204 (Christian Ethics) may be taken to fulfill the requirement.

**1. The English Bible.**—Survey of the contents of the historical and prophetic books of the Old Testament with particular reference to the literary, historical, and religious values. Required of all students majoring in religion, and is open to others as an elective in the Freshman year. 3 s.h. (E & W) PROFESSORS MYERS AND ORMOND, ASSISTANT PROFESSOR CRUM, AND MRS. SPENCE

**2. The English Bible.**—Study of the Psalms, wisdom literature, and the literature of the New Testament with special attention given to the literary, historical, and religious values. Required of all students majoring in religion, and is open to others as an elective in the Freshman year. 3 s.h. (E & W) PROFESSORS MYERS AND ORMOND, ASSISTANT PROFESSOR CRUM, AND MRS. SPENCE

**51. The History of the Hebrew People.**—A study of the Hebrew people that gives attention to their political history, their religious and social institutions, their literary development, with special reference to their contributions to civilization. For Sophomores who have not had 1-2. 3 s.h. (E & W) PROFESSORS MYERS AND SPENCE; ASSISTANT PROFESSOR PETRY, AND MRS. SPENCE

**52. New Testament Literature.**—A study of the literature of the New Testament, its historical background, and its religious value. For Sophomores who have not had 1-2. 3 s.h. (E & W) PROFESSORS MYERS AND SPENCE; ASSISTANT PROFESSOR PETRY, AND MRS. SPENCE

**101. The Social Teachings of the Prophets and Jesus.**—A study of the social teachings of the Old Testament prophets and of the social ideals of Jesus as they appear in the four gospels. 3 s.h. (W) PROFESSOR ORMOND

**102. The Christian Church in the Social Order.**—This course will deal with the Christian Church in its service to society and its relation to other social institutions. 3 s.h. (W) PROFESSOR ORMOND

**103. The Prophets of the Old Testament.**—In this course a study is made of the history and nature of prophecy, with particular attention being given to the messages of the outstanding pre-exilic literary prophets. 3 s.h. (W) PROFESSOR MYERS

**104. The History and Religion of the Jews to the Roman Period.**—The work in this course is based largely on exilic and post-exilic prophecy, the wisdom literature, and the earlier apocalyptic and apocryphal literature. 3 s.h. (W) PROFESSOR MYERS

[Not offered in 1938-39]

**115. The Life of Jesus.**—A study of the period in which Jesus lived and the record of his life as given in the Synoptic Gospels. 3 s.h. (w) (Old number S215.)

PROFESSOR MYERS

[Not offered in 1938-39]

**116. The Teachings of Jesus.**—An interpretation of the teaching of Jesus as recorded in the Synoptic Gospels. 3 s.h. (w) (Old number S216.)

PROFESSOR MYERS

**163. Religious Education of Children.**—An analysis of the religious life, interests and capacities of children; including a study of the problems, objectives, methods, and materials involved in teaching religion to children. Directed to the needs of the lay workers in the church. 3 s.h. (e)

MRS. SPENCE

**167. Contemporary Religious Problems.**—A course that deals with the main interests of life from the standpoint of their social and religious significance. 3 s.h. (w)

PROFESSOR SPENCE

**169. Character Problems.**—Problems of youth in character building. 3 s.h. (w)

ASSISTANT PROFESSOR CRUM

**170. Religion and the Modern Home.**—A study of the American home in its contemporary social and religious aspects. 3 s.h. (w)

ASSISTANT PROFESSOR CRUM

**181. The Nature and Early Development of Religion.**—Introduction to the early history of religion, the beliefs and practices of the more primitive peoples, and the religious life of the ancient world. For Juniors and Seniors. 3 s.h. (w)

PROFESSOR CANNON

**182. Founders and Literatures of Great Religions.**—Biographical and historical studies in the lives and times of Laotze, Confucius, Mahavira, Buddha, Nanak, Zoroaster, Mohammed, Jesus, and Paul, together with readings in the sacred writings of the world's religions. For Juniors and Seniors. 3 s.h. (w)

PROFESSOR CANNON

**203-204. Introduction to the Old Testament.**—The origin, literary form, and contents of the books of the Old Testament in their historical setting. 6 s.h. (w)

PROFESSOR RUSSELL

**213-214. The Beginnings of Christianity.**—A survey course dealing with the background, the beginnings, and the early history of Christianity. Special attention is given the creation of the literature of the New Testament. 6 s.h. (w)

PROFESSOR BRANSCOMB

**SR.270. Masterpieces of Great Religious Literature.**—This course is devoted to the religious thought in the literature from the second to the twentieth centuries, with special attention given modern religious poetry. 3 s.h. (w)

PROFESSOR SPENCE

**275. Introduction to the Psychology of Religion.**—Study of the major factors of religious experience, together with conditions bearing upon its genesis and growth. 3 s.h. (w)

PROFESSOR HICKMAN

**276. Advanced Psychology of Religion.**—Psychological study of such problems as worship, prayer, and various types of belief. Some attention to special problems. Prerequisite: course 275 or its equivalent. 3 s.h. (w)

PROFESSOR HICKMAN

**285. The Religions of the Far East.**—A study of the religious systems of China, Korea, and Japan. 3 s.h. (w)

ACTING PROFESSOR DUBS

**Philosophy 119. Fundamentals of Christian Morality: An Introduction to Christian Ethics.**—3 s.h. (w) DR. McLARTY

**Philosophy 203. The Philosophy of Conduct.**—(See the Department of Philosophy for description.) 3 s.h. ASSOCIATE PROFESSOR MORGAN

**Philosophy 204. Christian Ethics.**—(See the Department of Philosophy for description.) 3 s.h. PROFESSOR SMITH

## ELECTIVE COURSES

*All courses listed as acceptable in fulfilling the requirement in the Department of Religion are also open as electives for other students, with the exception of courses 1-2 and 51-52. After the requirements in religion have been met, consent of the instructor must be secured to be admitted to the other courses in the group offered to meet the requirements in the Department.*

**131-132. American Christianity.**—The aim of this course is to trace the growth of the different branches of the Christian Church in the United States, Canada, and Hispanic America. Prerequisite: History 1-2 or its equivalent. 6 s.h. (w) PROFESSOR GARBER  
[Not offered in 1938-39]

**201-202. Introductory Hebrew.**—A study in the forms of the Hebrew language with reading of selected Old Testament narratives. 6 s.h. (w) ASSISTANT PROFESSOR STINESPRING

**SR.211-212. Hellenistic Greek.**—A course for students who wish to begin the study of New Testament Greek. 6 s.h., provided the student takes six semester-hours in New Testament Greek the following year. 6 s.h. (w) ASSISTANT PROFESSOR CLARK

**217. The New Testament in Greek.**—Rapid reading in Greek text of the New Testament. Prerequisite: six semester-hours' study of the Greek language. 3 s.h. (w) ASSISTANT PROFESSOR CLARK

**218. Galatians and I Corinthians.**—A detailed study of two of Paul's major epistles. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. 3 s.h. (w) ASSISTANT PROFESSOR CLARK  
[Not offered in 1938-39]

**219. Life of Paul.**—A study of Paul's life on the basis of Acts and the letters of Paul, emphasizing the permanent values in Paul's work and his contribution to the world. 3 s.h. (w) PROFESSOR MYERS  
[Not offered in 1938-39]

**220. I Peter and the Gospel of John.**—A detailed study of two of the non-Pauline writings of the New Testament. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. 3 s.h. (w) ASSISTANT PROFESSOR CLARK

**233. Church History to the Reformation.**—A survey of the growth of the Christian Church from the Apostolic Age to the Reformation. 3 s.h. (w) ASSISTANT PROFESSOR PETRY

**234. History of the Evangelical Movement.**—Beginning with the Lutheran Reformation, this course traces the rise, growth, influence, and history to 1800 of the Calvinistic, Anglican, Reformed, Quaker, Baptist, and Methodist movements. 3 s.h. (w) PROFESSOR GARBER

**261. Foundations of Religious Education.**—A study of the fundamental conceptions underlying the theory of Christian education, including social, psychological, and theological aspects. 3 s.h. (w) PROFESSOR SMITH  
[Offered in second semester 1938-39]

**262. Organization of Religious Education.**—The development of a system of organization and administration based upon constructive educational theory, and embracing week-day as well as Sunday agencies of religious education. 3 s.h. (w) PROFESSOR SPENCE

[Offered in first semester 1938-39]

**263. Curriculum of Religious Education.**—Educational conceptions of the curriculum, values and uses of current curricula, principles and techniques of curriculum construction. 3 s.h. (w) PROFESSOR SPENCE

[Not offered in 1938-39]

**SR.265. Religious Drama.**—A historical survey of the relation between religion and drama, a study of the uses and underlying principles of religious drama, and a critical examination and interpretation of selected dramatic productions. 3 s.h. (w) PROFESSOR SPENCE

**266. Educational Aspects of Worship.**—A study of worship in its bearing upon the educational function of the Christian religion. Students admitted on consultation. 3 s.h. (w) PROFESSOR SMITH

**267. Technic of Teaching Religion.**—Objectives and principles of the teaching process, including a discussion of the major types of educational procedure. 3 s.h. (w) PROFESSOR SPENCE

[Offered in second semester 1938-39]

**SR.268. Religious Drama Construction and Production.**—Project work in the creation and production of religious drama and pageants. Practice in the selection, staging, lighting, and direction of religious plays. Construction of dramatic programs of worship. 3 s.h. (w) PROFESSOR SPENCE

**281. Living Religions of the World.**—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. Open only to Seniors planning to enter the School of Religion; others take 181-182. 3 s.h. (w) (Old number 282.) PROFESSOR CANNON

**283. Expansion of Christianity.**—The spread of Christianity as interpreted in the light of political, social, economic, and other factors. 3 s.h. (w) PROFESSOR CANNON

[Not offered in 1938-39]

**284. Comparative Religion.**—The ideas of God, sin, salvation, the future life, and ethics in the religions of the world. Prerequisite: 181-182. (Old number 384.) 3 s.h. (w) PROFESSOR CANNON

**286. The Religions of India.**—A study of present-day religious movements in India, with special reference to Hinduism. 3 s.h. (w) PROFESSOR CANNON

[Not offered in 1938-39]

**288. Mohammedanism.**—The life of Mohammed and the religion of Islam, special attention being given to the Koran and its teachings. The aim is to interpret Mohammedanism as a force today. Prerequisite: 181-182. (Old number 384.) 3 s.h. (w) PROFESSOR CANNON

[Not offered in 1938-39]

**289. Buddhism.**—India at the rise of Buddhism. Life of the Buddha and the teachings of early Buddhism. Development into the Hinayana and Mahayana schools, its spread and present condition in southern and eastern Asia. Prerequisite: 181-182. (Old number 383.) 3 s.h. (w) PROFESSOR CANNON

PROFESSOR CANNON



## DEPARTMENTAL MAJOR

*Prerequisite:* Religion 1-2.

*Major Requirements:* A major in the Department of Religion consists of twenty-four semester-hours of work, exclusive of courses primarily for Freshmen, eighteen semester-hours of which shall be selected with the approval of the instructor under whose supervision the student does his major work.

## DEPARTMENTAL HONORS

For admission to candidacy for Honors in the Department of Religion the student must have completed either Religion 1-2 or 51-52 with a grade of "B" or better in these courses, and have no grade of "D" in other subjects taken in the Freshman and Sophomore years.

Candidates for Honors shall complete the following: at least eighteen semester-hours of work in the regular curriculum courses of this Department, six semester-hours of which must be of Senior-Graduate level; twenty-one semester-hours of regular curriculum courses in related departments; Honors readings and tutorial work equivalent to ten semester-hours of course work.

The student in the Honors course shall prepare during the first year a preliminary report upon some subject embraced in his Honors readings. The following year, he shall prepare a more complete report or essay.

The final examination will be both oral and written, covering the general field of the candidate's study and the special field in which he has done his Honors readings.

## ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DAVIS, SUPERVISOR OF FRESHMAN INSTRUCTION IN FRENCH; INSTRUCTOR HASBROUCK, SUPERVISOR OF FRESHMAN INSTRUCTION IN SPANISH; PROFESSORS COWPER AND JORDAN\*; ASSOCIATE PROFESSORS LUNDEBERG AND WALTON; ASSISTANT PROFESSORS BRIDGERS, QUINN, AND YOUNG; INSTRUCTORS—AVILÉS, DOW, RAYMOND; MME. LINIÈRE DOW; AND ASSISTANTS

The courses in French from 1 to 52, inclusive, 57-58, and 87-88 are for the general student. They give a reading knowledge of standard French and furnish an introduction to French letters. Courses 55-56, 107, 127-128, and 217 offer training in the French language. The literary courses are devoted to the systematic study of classical and modern French literature. Advanced students are offered an introductory course in Old French philology and literature. Those planning to teach will find in course 218 a treatment of the teaching of French.

The course in Italian includes the reading of Dante's *Inferno*.

The courses in Spanish from 1 to 102, inclusive, are for the general student. They have as objectives: a reading knowledge of Spanish and training in the written and spoken language. Courses 153 and 154 offer further training in the language. The remaining courses are devoted to modern and classical Spanish and Hispano-American literature.

## FRENCH

1-2. **Elementary French.**—6 s.h. (w & e)

ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSOR BRIDGERS; MR. DOW

3-4. **French Prose.**—Prerequisites: French 1 and 2, or two years of high-school French. 6 s.h. (w & e)

PROFESSORS WEBB, COWPER, AND JORDAN; ASSISTANT PROFESSORS DAVIS AND QUINN; MR. DOW AND MISS RAYMOND

\* Absent on leave, second semester, 1938-1939.

**51-52. Introduction to French Literature.**—Prerequisites: French 3 and 4 or equivalent. 6 s.h. (w & e)

PROFESSORS COWPER AND JORDAN; ASSISTANT PROFESSORS BRIDGERS, DAVIS, AND YOUNG; MR. DOW AND MISS RAYMOND

**57-58. Introduction to French Literature.**—Identical in content with 51 this course has less translation into English. Various exercises will replace translation. Considerable use will be made of French in conducting the course. Open to those whose previous training or superior record indicates that they are qualified. Prerequisites: French 3 and 4 or equivalent. 6 s.h. (w & e)

PROFESSOR WEBB; ASSOCIATE PROFESSOR WALTON;  
ASSISTANT PROFESSOR QUINN

*Students will take course 51-52 or 57-58. They will not take both 51 and 57 or 52 and 58. Total credit in these courses is limited to six semester-hours. They are the basic prerequisites to all higher courses.*

**55. Exercises in Spoken French.**—1 s.h. (w & e) MME. LINIÈRE DOW

**56. Exercises in Spoken French.**—1 s.h. (w & e) MME. LINIÈRE DOW

**87-88. French Writers of the Romantic Movement.**—3 s.h. (e)

ASSISTANT PROFESSOR DAVIS

*May not be taken with or in addition to course 108.*

**107. French Composition.**—3 s.h. (w & e)

PROFESSOR COWPER AND MISS RAYMOND

**108. The French Romantic Movement.**—3 s.h. (w & e)

PROFESSOR COWPER AND MISS RAYMOND

*May not be taken with or in addition to course 87-88.*

**109. Molière.**—3 s.h.

PROFESSOR WEBB

[Not offered in 1938-39]

**110. Poems of Victor Hugo.**—3 s.h.

PROFESSOR WEBB

[Not offered in 1938-39]

**111. French Drama since 1850.**—3 s.h. (w & e)

ASSISTANT PROFESSOR YOUNG

**112. French Drama since 1850.**—3 s.h. (w & e)

ASSISTANT PROFESSOR YOUNG

**113. French Classicism.**—From Malherbe to La Bruyère. 3 s.h. (e)

ASSOCIATE PROFESSOR WALTON

**114. French Classicism.**—From La Bruyère to the Encyclopedists and Beaumarchais. 3 s.h. (e)

ASSOCIATE PROFESSOR WALTON

**127. Advanced French Composition.**—Prerequisite: French 107 or equivalent. 3 s.h. (w)

MME. LINIÈRE DOW

**128. Advanced French Composition.**—Prerequisite: course 107. 3 s.h. (w)

MME. LINIÈRE DOW

**215-216. The Modern French Novel.**—A survey of the novel form from the seventeenth to the twentieth centuries, with particular attention to the analysis of fundamental literary tendencies: classicism, rationalism, romanticism, and realism. Prerequisite: 6 s.h. from courses 87-88 and 108 to 114, inclusive. 6 s.h. (w)

PROFESSOR JORDAN

217. **French Phonetics.**—French sounds and French spelling; pronunciation drills; exercises in phonetic transcription and dictation; diction; aural comprehension. Prerequisite: 3 s.h. from courses 107 or 127-128. 3 s.h. (w)  
 PROFESSOR WEBB

218. **Materials and Methods.**—History of the teaching of French; methods; the course of study; analysis and criticism of representative texts; tests and examinations; objectives in the light of teaching conditions, equipment, and future application. Prerequisite: course 107 or equivalent. 3 s.h. (w)  
 PROFESSOR WEBB

219. **Old French.**—An introduction to the Old French language and literature. 3 s.h. (w)  
 PROFESSOR COWPER  
 [Not offered in 1938-39]

220. **Old French.**—Types of Old French literature. 3 s.h. (w)  
 PROFESSOR COWPER  
 [Not offered in 1938-39]

227. **French Poetry since Theophile Gautier.**—Parnassianism and Symbolism. 3 s.h.  
 ASSOCIATE PROFESSOR WALTON  
 [Not offered in 1938-39]

232. **Rousseau and the Beginnings of Romanticism.**—3 s.h. (w)  
 PROFESSOR COWPER

233. **Main Currents of Modern French Literature.**—A survey of the principal literary tendencies from the 17th to the 19th centuries. Selected illustrative readings from leading authors. *Second semester.* 3 s.h. (w)  
 ASSOCIATE PROFESSOR WALTON

#### ITALIAN

181-182. **Italian.**—Introduction to the language, modern Italian readings, and Dante's *Inferno*. 6 s.h. (w)  
 PROFESSOR WEBB

#### SPANISH

1-2. **Elementary Spanish.**—6 s.h. (w & e)  
 ASSISTANT PROFESSORS DAVIS, QUINN, AND YOUNG;  
 DRs. AVILÉS AND HASBROUCK

3-4. **Intermediate Spanish.**—Prerequisites: Spanish 1-2 or two years of high-school Spanish. 6 s.h. (w & e)  
 ASSOCIATE PROFESSOR LUNDEBERG; ASSISTANT PROFESSORS BRIDGERS  
 AND QUINN; DRs. AVILÉS AND HASBROUCK

65. **Introduction to Modern Spanish Literature.**—Prerequisite: Spanish 3-4 or equivalent or Spanish 101-102 with permission. 3 s.h. (w & e)  
 ASSOCIATE PROFESSOR LUNDEBERG; DRs. AVILÉS AND HASBROUCK

66. **Introduction to Spanish Literature of the Golden Age.**—Prerequisite: Spanish 65 or equivalent. 3 s.h. (w & e)  
 ASSOCIATE PROFESSOR LUNDEBERG; DRs. AVILÉS AND HASBROUCK

101-102. **Elementary Spanish.**—An intensive course for Juniors and Seniors only. 6 s.h. (w)  
 DR. HASBROUCK

153. **Spanish Phonetics.**—The sounds of the Spanish language; sound changes; intonation; exercises in transcription; regional pronunciation; limited use of electrical recording machines. Prerequisites: Spanish 65-66, or 3-4 and 101-102 with permission. (Enrollment limited to fifteen students.) 3 s.h. (w)  
 ASSOCIATE PROFESSOR LUNDEBERG

154. **Advanced Spanish Composition and Conversation.**—Prerequisite: Spanish 153. (Enrollment limited to fifteen students.) 3 s.h. (w)

DR. AVILÉS

155. **Literatura Hispanoamericana: La Pampa, Payadores y Gauchos en la Literatura Americana.**—Prerequisites: Spanish 65-66 or 3-4 with permission. 3 s.h. (w)

DR. AVILÉS

[Not offered in 1938-39]

156. **La Tendencia Modernista en la Literatura Americana.**—Prerequisite: Spanish 155. 3 s.h. (w)

DR. AVILÉS

[Not offered in 1938-39]

157-158. **The Modern Spanish Theater.**—Prerequisite: Spanish 65-66 or 3-4 with permission. 6 s.h. (w)

DR. HASBROUCK

261-262. **The Modern Spanish Novel.**—Prerequisites: 6 s.h. from courses 153 to 158 inclusive, or 65-66 with permission. 6 s.h. (w)

ASSOCIATE PROFESSOR LUNDEBERG

265. **Golden Age Literature: Cervantes.**—The *Novelas ejemplares*; analytic study of the tales, their sources, style, literary importance, and influence on world literature. Prerequisites: 6 s.h. from courses 153 to 158 inclusive, or 65-66 with permission. 3 s.h. (w)

ASSOCIATE PROFESSOR LUNDEBERG

[Not offered in 1938-39]

266. **Golden Age Literature: The Don Juan Theme.**—Study of representative Don Juan plays of the Golden Age, with reference to use of this *motif* by later writers in Spain and abroad. Prerequisites: 6 s.h. from the courses 153 to 158 inclusive, or 65-66 with permission. 3 s.h. (w)

ASSOCIATE PROFESSOR LUNDEBERG

[Not offered in 1938-39]

#### DEPARTMENTAL MAJORS

*Prerequisites:* French 1-2, 3-4, or equivalent, for French. Spanish 1-2, 3-4, or equivalent, for Spanish.

*Major Requirements:* In French, twenty-four semester-hours of work must be completed in courses above the Freshman level, and must include: (a) six semester-hours from the group 107, 127-128, 217; (b) six semester-hours of literature in courses numbered 215 to 232. Students desiring the recommendation of the Department for the teaching of French will take in addition French 218.

In Spanish, twenty-four semester-hours must be completed as follows: eighteen hours in the courses 65-66, 153-154, 155-156, 157-158; six hours from the group 261-262, 265-266.

#### SOCIOLOGY

PROFESSOR ELLWOOD, CHAIRMAN; PROFESSOR JENSEN, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR HART; ASSISTANT PROFESSOR THOMPSON

91-92. **General Sociology.**—The same as course 101, except that it gives an additional hour of credit to permit the introduction of more concrete materials, and admits Sophomores with an average grade of not less than "C" during the Freshman year. 6 s.h. (E)

PROFESSOR JENSEN

101. **General Sociology.**—An introduction to the scientific study of social life; its origin, evolution, and organization as illustrated by the study of a number of concrete social problems. This course is repeated each semester and is prerequisite to all other courses in sociology. 5 s.h. (w)

PROFESSOR ELLWOOD

102. **General Sociology.**—The same as course 101. 5 s.h. (w)

109. **Sociology of the South.**—The developing regional organization of the world economy studied with especial reference to Southern life and problems. A survey of the composition and distribution of population, races and race relations; economic conditions underlying population, race factors, and culture of the South. Primary emphasis is upon social change and its control. Prerequisite: course 91-92 or 101. 3 s.h. (w)

ASSISTANT PROFESSOR THOMPSON

111. **Introduction to Child Welfare.**—A special course in child welfare for Juniors and Seniors. Prerequisite: course 91-92 or 101. 3 s.h. (w)

PROFESSOR JENSEN

114. **Race Relations.**—Against the background of a preliminary study of inter-racial experiences in other parts of the world an effort is made to understand more clearly the racial situation in the Southern States. Prerequisite: course 91-92 or 101. 3 s.h. (w)

ASSISTANT PROFESSOR THOMPSON

205. **Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. Prerequisite: course 91-92 or 101. 3 s.h. (w)

PROFESSOR JENSEN

206. **Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. Prerequisite: course 91-92 or 101. 3 s.h. (w)

PROFESSOR JENSEN

212. **Child Welfare.**—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. Prerequisite: course 91-92 or 101. 3 s.h. (w)

PROFESSOR JENSEN

[Not offered in 1938-39]

213. **Constructive Social Policies.**—An intensive study of the theories and legislation dealing with such problems as compensation, vocational re-education, and other methods of social insurance and social improvement. Prerequisite: course 91-92 or 101. 2 s.h. (w)

PROFESSOR JENSEN

[Not offered in 1938-39]

219. **Urban Sociology.**—This course studies the function of the city in the larger community which it nucleates both as market and as industrial center. More detailed attention, however, is given to the inner life and problems of the city. Prerequisite: course 91-92 or 101. 3 s.h. (w)

ASSISTANT PROFESSOR THOMPSON

220. **Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the farm family, the peasant village, the ranch, and the plantation. In this course special attention is given to the plantation and the rural problems of the South. Prerequisite: course 91-92 or 101. 3 s.h. (w)

ASSISTANT PROFESSOR THOMPSON



**227. Emigration and Immigration.**—A study of territorial movements of population with especial reference to Europe and America. Causes and extent of migration; its effect upon American and European society; origin and characteristics of immigrant groups and their organizations in the New World; problems, agencies, and processes of assimilation. Prerequisite: course 91-92 or 101. 3 s.h. (w)

PROFESSOR JENSEN

[Not offered in 1938-39]

**231. General Anthropology.**—A study of the origin and evolution of man and of human culture. The prehistoric human types, the various races; the nature of culture; the evolution of tools and technology. 3 s.h. (w)

PROFESSOR HART

**232. Cultural Anthropology.**—A study of the earliest stages of social evolution; the emergence of language, art, magic, religion, morals, science, and social organization in the family and in primitive and prehistoric political institutions. 3 s.h. (w)

PROFESSOR HART

**233. The World Crisis in the Light of Social Anthropology.**—A course on the problem of present social changes in the light of the trends of human culture and of the dynamic processes through which men may take a part in determining the future of civilization. Prerequisite: courses in General Anthropology and in General Sociology, or equivalent. 3 s.h. (w)

PROFESSOR HART

**234. Social Ethics.**—An attempt to measure as accurately as possible the qualities needed in social leaders—particularly the qualities having to do with the capacity for creative co-operation and insight—and to study the most promising methods available for cultivating those qualities. Especially designed for the students in the School of Religion. 3 s.h. (w)

PROFESSOR HART

**238. The American Indian.**—The origin, history, and culture of the American Indian stocks, with especial reference to those of North America. 3 s.h. (w)

[Not offered in 1938-39]

**242. Marriage and the Family.**—An analysis of contemporary marriage and family experience with emphasis on its functions, problems, resources, and values. Prerequisite for undergraduate credit: Sociology 91-92 or 101. 2 s.h. (w)

PROFESSOR GROVES (U. N. C.)

#### DEPARTMENTAL MAJOR

Students desiring to take a major in sociology are required to complete course 91-92 or 101 or 102 and twelve additional hours in the Department.

#### ZOOLOGY

PROFESSOR PEARSE, CHAIRMAN; ASSOCIATE PROFESSOR GRAY, DIRECTOR OF UNDERGRADUATE STUDIES; DR. JEFFERS, ADVISER OF UNDERGRADUATE WOMEN; DR.

BOOKHOUT, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CUNNINGHAM, HALL, HARGITT; INSTRUCTOR—JOHNSON;

AND ASSISTANTS

**1. General Zoology.**—A brief survey of the animal kingdom. 4 s.h. (w & e) DRs. BOOKHOUT AND JEFFERS; DR. JOHNSON; AND ASSISTANTS

**2. Animal Biology.**—A study of the principles of biology as applied to animals. Prerequisite: Zoology 1. 4 s.h. (w & e)

ASSOCIATE PROFESSOR GRAY AND DR. JEFFERS; DRs. BOOKHOUT AND JOHNSON; AND ASSISTANTS

**53. Comparative Vertebrate Anatomy.**—A study of the anatomy and evolution of the organ systems of vertebrates. Prerequisites: Zoology 1 and 2. 4 s.h. (w & e) ASSOCIATE PROFESSOR GRAY AND DR. JEFFERS; DR. JOHNSON; AND ASSISTANTS

**92. General Embryology.**—A study of the fundamental principles of embryology as illustrated in the frog, chick, and mammal. Prerequisite: Zoology 53. 4 s.h. (w & e) PROFESSOR CUNNINGHAM; DR. JEFFERS; AND ASSISTANTS

**109. Evolution.**—The facts and theories of organic evolution. Prerequisite: two years of zoology. 2 s.h. (w) PROFESSOR HALL

**110. Introduction to Genetics.**—The principles and practical applications of genetics as applied to animals, including man; family and twin studies. Prerequisite: one year of zoology. 2 s.h. (w) DR. JOHNSON

**151. Comparative Physiology.**—The primary functions of animals of all groups and a more detailed study of the physiological processes in mammals. Prerequisite: Zoology 53. 4 s.h. (w) PROFESSOR HALL AND ASSISTANTS

**156. Vertebrate Histology.**—The microscopic structure of normal tissues and organs of the vertebrate body. Training will be given in the preparation of material for microscopic study. Primarily for major students in zoology and not recommended for pre-medical students since a similar course is given in the first-year medical curriculum. Prerequisite: Zoology 53. One lecture and three laboratory periods. 4 s.h. (w) PROFESSOR HARGITT

**161. Animal Parasites.**—A consideration of animal parasites, with particular emphasis upon those infesting man. Prerequisite: one year of zoology. 4 s.h. (w) PROFESSOR PEARSE

**174. Invertebrate Zoology.**—A study of structure, life-history, and adaptations of invertebrate animals. Living animals will be used when possible. Prerequisites: Zoology 1 and 2. 4 s.h. (w) DR. BOOKHOUT

**204. Advanced Parasitology.**—Lectures, conferences, readings, and laboratory work, dealing with practical and theoretical matters relating to animal parasites. Offered in alternate years. Prerequisite: Zoology 161. 3 or 4 s.h. (w) PROFESSOR PEARSE

**219-220. Special Problems.**—Students who have had proper training may carry on special work. Not more than 4 hours credit may be obtained in one semester. (w) STAFF

**222. Entomology.**—A study of anatomy, physiology, embryology, and classification of insects. Offered in alternate years. Prerequisite: one year of zoology. 4 s.h. (w) ASSOCIATE PROFESSOR GRAY  
[Not offered in 1938-39]

**224. Vertebrate Zoology.**—A study of life histories, adaptations, ecology, and classification of vertebrate animals. Offered in alternate years. Prerequisite: Zoology 53. 4 s.h. (w) ASSOCIATE PROFESSOR GRAY

**229. Endocrinology.**—The structure, physiology, and embryology of the endocrine glands. Lectures, reading assignments, and reports. Prerequisites: Zoology 53 and 92. 3 or 4 s.h. (w) PROFESSOR CUNNINGHAM

**256. Seminar: Current Developments in Physiological Zoology.**—Prerequisite: Zoology 151. Open only to Seniors. 2 s.h. (w) PROFESSOR HALL

RELATED COURSES WHICH MAY BE COUNTED TOWARD A MAJOR IN ZOOLOGY

**Botany 101. Principles of Heredity.**—3 or 4 s.h. (w) DR. PERRY

**Botany 202. Genetics.**—4 s.h. (w) DR. PERRY

#### DEPARTMENTAL MAJOR

*Prerequisites:* Zoology 1 and 2.

*Major Requirements:* Twenty-four semester-hours including courses 53, 92, and 151. The remaining twelve hours may be from any other courses for which the student is eligible.

#### DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in zoology a student is expected to have completed zoology courses 1, 2, 53, and 92 and not less than eight semester-hours of chemistry.

The Honors Program will not necessarily be the same for all students. Courses 151, either 156 or 174, and eight additional hours of zoology are required. From twelve to twenty semester-hours of science other than zoology will be expected; the number of hours and the courses to be taken will depend upon the needs and interests of the student.

Each student will read in such fields as history of biology, zoological theories, or in special fields, and will undertake a special problem. He will meet regularly with his Honors Adviser. He may be asked to prepare written reports on his readings and must present a written report on his problem. Readings and problem may count for nine to twelve semester-hours.

At the end of the Junior year an examination will be given to test the student's ability to correlate material and to determine his fitness to continue in the Honors Course. At the end of the Senior year a general comprehensive examination covering the entire field of study must be passed.

#### COURSES ON THE MIDDLE AND FAR EAST

For convenience there are listed here from several departments courses dealing with Middle and Far Eastern subjects.

**The Far East.**—A survey of western imperialism in China and Japan during the 19th and 20th centuries. 6 s.h. History 141-142.

PROFESSOR CLYDE

**History of the Foreign Relations of the United States.**—6 s.h. History 215-216.

PROFESSOR CLYDE

[Offered 1939-40]

**History of Modern Japan.**—A survey of institutional development, political, economic and social since 1850. 3 s.h. History 241. PROFESSOR CLYDE

**History of Modern China.**—A survey of institutional development, political, economic, and social since 1840. 3 s.h. History 242. PROFESSOR CLYDE

**Colonialism and Nationalism in Northern and Southeastern Asia.**—A study of indirect rule, native institutions, and self-determination in the Asiatic regions indicated. 3 s.h. Political Science 113. DR. LINEBARGER

**Political Institutions of the Far East.**—A study of the governmental systems of Japan, Korea and China from the earliest times to the present. 3 s.h. Political Science 211. DR. LINEBARGER

**International Politics of the Far East.**—A study of changing power relationships in the Orient since the arrival of the Europeans. 3 s.h. Political Science 212. DR. LINEBARGER

**Chinese Philosophy.**—3 s.h. Philosophy 236. ACTING PROFESSOR DUBS  
[Offered 1939-40]

**Indian Philosophy.**—3 s.h. Philosophy 238. PROFESSOR WIDGERY

**Oriental Art.**—A study of the art of the Islamic world, India, China, and Japan, as it reflects the life and philosophy of the major periods. 3 s.h. Fine Arts 92. ASSISTANT PROFESSOR McDONALD

**Founders and Literatures of Great Religions.**—Biographical and historical studies in the lives and times of Lao-tze, Confucius, Mahavira, Buddha, Nanak, Zoroaster, Mohammed, Jesus, and Paul, together with readings in the sacred writings of the world's religions. 3 s.h. Religion 182.

PROFESSOR CANNON

**Living Religions of the World.**—A survey of the religious systems of China, India, and Japan, followed by a study of Judaism, Mohammedanism and Christianity, the object being to trace the historical development of each religion. 3 s.h. Religion 281.

PROFESSOR CANNON

(Open only to seniors planning to enter the School of Religion; others take 181-182.)

**The Religions of the Far East.**—A study of the religious systems of China, Korea, and Japan. 3 s.h. Religion 285. ACTING PROFESSOR DUBS

**The Religions of India.**—A study of present-day religious movements in India, with special reference to Hinduism. 3 s.h. Religion 286.

PROFESSOR CANNON

**Christian Missions in China.**—Early missions; Roman Catholic missions; Protestant beginnings; reaction and reorganization; the present situation. 3 s.h. Religion 287. ACTING PROFESSOR DUBS

**Buddhism.**—India at the rise of Buddhism. Life of the Buddha and teachings of early Buddhism. Development into the Hinayana and Mahayana Schools, its spread and present condition in southern and eastern Asia. 3 s.h. Religion 289. (Prerequisite: 181-182, or 281.) PROFESSOR CANNON

## GENERAL REGULATIONS

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The academic year is divided into two semesters. The first semester of the academic year 1938-39 begins September 21; the second, February 1. Commencement is held on Monday, after the first Sunday in June. Commencement Day, 1938, is June 5.

### TIME OF ENTRANCE

Patrons of the University and students who intend to enter the Freshman Class are reminded that the placement tests are held at the opening of the first semester in September and that this is the proper time to enter. If an applicant for admission cannot come early in the year, he should wait, except in very unusual cases, until the opening of the next semester. It is important that all students be present on the first day of the session, for those who are late incur the penalties described above in this catalogue under the topic "Admission to College" and below under the sub-topic "Course Cards." Students who enter after the beginning of the semester are marked absent in the work they have missed in the courses to which they are admitted, and these absences are counted as other absences from class.

### MATRICULATION, REGISTRATION, AND ENROLLMENT

All students must appear before the Committee on Admission and obtain cards for admission. Cards of admission must be presented at the Treasurer's Office at the time of matriculation. All students, both old and new, are required to matriculate at the beginning of each semester and to obtain from the Treasurer a certificate of matriculation which serves also as an enrollment card. Students matriculating in either semester at a date later than that prescribed in this catalogue shall pay to the Treasurer a penalty of \$5.00 for late registration. Students whose course cards have been approved in the spring in the manner provided below are given an opportunity during the summer to matriculate by mail for the first semester. No student without a matriculation card is admitted to any class.

### COURSE CARDS

Members of the Freshman, Sophomore, and Junior classes are required to submit to the Dean, not later than the date of spring registration, cards showing their selection of courses for the following year. These cards must be approved by the Dean. After being approved, the cards must be filed for permanent record in the Dean's Office. Students in the Freshman, Sophomore, and Junior classes who do not select their courses for the following year at the time appointed have to pay a fee of \$5.00 to the Treasurer of the University before their course cards may be approved



in the fall. The same regulations apply for the second semester. Students whose course cards have been approved but who, for reasons not arising within the University, desire to make a change in the card approved have to pay to the Treasurer a fee of \$1.00 for each change made. No course may be elected later than two weeks after the opening of the semester.

If a student drops a course without permission from the Dean of the College, the grade for that course shall be recorded as "F."

If a student drops with permission a course in which he is failing at that time, the grade for that course shall be recorded as "F," unless in the judgment of the Dean, circumstances do not justify this penalty.

### EXAMINATIONS

Mid-year and final examinations are held in all subjects in January and May, respectively. The examination record combined with the record made in class constitutes the student's final grade.

### REGULATIONS REGARDING GRADES

The following regulations have been adopted by the Faculty:

Grades shall be reported so as to indicate one of four things:

(1) *Passed.* A grade of "A," "B," "C," or "D" shall indicate that a student has passed a course. The work of this group of students shall be graded according to the following system: "A": exceptional; "B": superior; "C": medium; "D": inferior.

(2) *Failed.* A grade of "F" shall indicate that the student has failed in the course and that in order to receive credit for the course he shall be obliged to take the work again in class.

(3) *Incomplete.* (a) A grade of "I" may be reported by the instructor if for any reason he is unable to report the final grade at the regular time. (b) All students (with incomplete grades) who have not satisfied the requirements of the departments concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "I" was incurred are regarded as having failed on the course concerned and must repeat the work in class in order to receive credit.

(4) *Absent from Final Examination.* (a) The grade "X" shall indicate that the student was absent from the final examination. (b) A student absent from examination and marked "X," if his absence has been excused by the Dean of the College, may receive an examination on the payment of a fee of \$3.00 to the Treasurer of the University. The department concerned shall arrange for the examination in cases where absences are incurred and excused, and the grade reported in these cases shall be that earned by the student. (c) All students (with "X" grades) who have not satisfied the requirements of the department concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "X" was incurred, are regarded as having failed on the course concerned and must

repeat the work in class in order to receive credit. (d) If a student's absence from an examination is not excused by the Dean of the College, his grade for the course concerned shall be recorded as "F."

### EXPLANATION OF QUALITY-POINT SYSTEM

The requirements for the degree are reckoned not only in semester-hours but also in quality-points. Quality-points are the points earned by a student according to his grades, for each semester-hour of credit. The grade "A" gives three quality-points for each semester-hour of credit; the grade "B" two quality-points; the grade "C" one quality-point. The grade "D" carries no credit in quality-points. For the grade "F" one quality-point is deducted for each semester-hour of failure. Credit for 122 quality-points, exclusive of those earned in physical education, is required for the degree of Bachelor of Arts or Bachelor of Science in all groups.

### NUMBER OF HOURS OF CLASS WORK

No undergraduate student is allowed to take less than fourteen hours of class work a week without special permission of the Dean.

No undergraduate student may take more than seventeen semester-hours of work in one semester, if he fails to make eighteen quality-points on the work of the preceding semester.

### CLASS STANDING

For a student to rank as a Sophomore, he must have to his credit twenty-four semester-hours with an average grade of "C"; as a Junior, fifty-six semester-hours with an average grade of "C"; as a Senior, ninety semester-hours, with an average grade of "C."

### SENIOR WORK

A student of the Senior Class, irrespective of his average grade in preceding years, must, in order to be eligible for graduation, complete his work of the Senior year with an average grade of "C" or better.

### EXCLUSION FOR FAILURE

A student of the Freshman Class entering college for the first time is not permitted to remain in the University in the second semester unless he passes as much as six semester-hours of the work of the first semester; any other student is not permitted to remain in the University in the second semester unless he passes as much as nine semester-hours of work in the first semester.

A student of the Freshman Class is not permitted to re-enter in September, nor to enter Summer School, if he did not pass at least eighteen semester-hours of the work in the previous year; any other student is not permitted to re-enter in September, nor to enter the Summer-School, if he did not pass at least nine semester-hours of work in the second

semester of the previous year and a total of eighteen semester-hours of work for the entire year.

### **STUDENTS TRANSFERRING FROM OTHER INSTITUTIONS**

Students whose advanced credits from another institution are accepted by the University will be given an average grade of "C" on the semester-hours with which they are credited, provided their grades warrant it.

### **DEFICIENCIES IN COMPOSITION**

The following regulations have been adopted by the Faculty:

1. Any Freshman who is found by the English Department to be unable to handle satisfactorily the work of composition in English 1-2 is required to take special work until he is able to do satisfactorily the regular work of English 1-2.

2. No student who has failed in English 1-2 or 53 is permitted to become a special student without continuing his work in composition until he has made up his deficiency in this work.

3. Whenever the work of a student in any subject is satisfactory to an instructor except for gross errors in English, the instructor concerned may hand in a provisional grade only. This grade may not be recorded in the college files until the student shall have improved his work in composition to the satisfaction of the English Department. A list of such provisional grades, along with evidence of deficiencies, shall be furnished the English Department each term by the officers in charge of the grades, and a report shall be made by this department when the deficiencies shall have been removed.

4. All instructors are requested to advise their students each semester concerning these regulations.

### **CANDIDATES FOR ACADEMIC DEGREES**

1. A tentative list of all candidates for the Bachelor's degree shall be prepared under the supervision of the Dean of the College as early in the college year as possible, shall be read by him to the Faculty at its first regular meeting in October, shall be furnished in copy to each department of instruction for information and reference, and also shall be posted in copy on the official bulletin board of the University for the information of the students concerned.

2. Copies of a second such tentative list likewise shall be prepared, read, and distributed by April 15.

3. A final list of all candidates for the degree shall be read by the Dean to the Faculty at its first regular meeting in May and shall be adopted by the Faculty as the final list. After the adoption of this list no name may be added to it.

4. Students who during Summer School complete the requirements for a degree shall be classified for graduation as of the year following the Summer School in which the work was completed, and their name shall so

appear in the catalogue of the University and on the Commencement Program.

### THE DEAN'S LIST

Students of the Junior and Senior classes who, at the mid-year or final examinations, have attained in Duke University an average of "B" in their courses of the half-year just closed and who have not received a grade of "F" in any course may be placed on the Dean's List for the succeeding half year. The privilege of the Dean's List is also extended to eligible members of the Sophomore Class during their second semester.

The name of a student may be withdrawn from the List at any time by the Dean, if the student fails to maintain a satisfactory standard of scholarship and conduct.

Students whose names are on the Dean's List will not be subject to the general regulations of the University governing class attendance. This privilege, however, may not be exercised in courses primarily open to Freshmen. Furthermore, such students are required to be present at the meeting of classes immediately before and after any holiday, unless they are excused by the Dean of the College.

If for any reason a student is removed from the Dean's List during, or at the close of, the second semester of his Junior year, his name may not be reinstated on the List.

### CLASS ATTENDANCE AND ABSENCES

Regular and punctual attendance in class work is required of all students not on the Dean's List.

The purpose of the following rules is to provide for those absences made necessary by illness and all other emergencies. Students should reserve these absences for such occasions.

If a student incurs during a semester more than five absences from a three-hour course of study he is carrying (the number of absences allowed in any other course being proportionate to the credit hours the course carries), he shall suffer the loss of quality-points as follows: for the first absence in excess of the number allowed, one; for the second, two; for each absence thereafter, three. Absences due to prolonged illness or to authorized representation of the University in a student activity are excused without effect on grades. However, if other absences, unless unavoidable, are incurred after such excused absences, they will cause the loss of quality-points in accordance with the penalty as defined above.

If the total number of a student's absences in all courses for which he is registered during a single semester amounts to one more than the total number allowed, except under the provisions of the preceding paragraph, his total credit for that semester is reduced by one hour, and for each additional five absences a reduction of one hour of credit is made.

As soon as the number of absences in a single semester course, exclusive of the absences due to prolonged illness and authorized representation of the University, exceeds three times the number of credit hours the course carries, registration in that course is cancelled.

A student is counted absent from meetings of a class held before he matriculates at the beginning of a semester.

All consecutive absences from the University, before or after any holiday, shall be counted as triple absences.

In addition, a student for excess absences, may, at the discretion of the Dean, be put on probation or dropped from the College.

Weekly reports of all absences of students from class are made by each instructor and are filed in the office of the Dean. A permanent record of the attendance of each student is kept and becomes a part of his general college record.

The instructor has no authority to excuse a student from class attendance, and it is his duty to report all absences, for whatever cause, to the Dean's Office at the end of each week.

## **ASSEMBLY AND CLASS MEETINGS**

### **TRINITY COLLEGE**

There shall be held on the first Thursday of each month of the college year in Page Auditorium, from 12:30 P.M. to 12:50 P.M., an assembly of all Seniors, Juniors, Sophomores and Advanced Freshmen of Trinity College, and at this period of the day separate meetings of these four groups on the second, third, and fourth Mondays or Thursdays of each month. There shall be a class meeting of the Freshman Class on each Saturday of every month at the time named above. The Engineering assemblies are held on the first Tuesday of each month from 12:30 P.M. to 12:50 P.M.

Attendance upon all of these meetings is compulsory for all students involved. Any student incurring in a semester a total of more than four absences from them automatically excludes himself from college.

### **WOMAN'S COLLEGE**

An assembly is held each Tuesday, Wednesday, and Thursday in the Woman's College Auditorium. The hour is 12:30 P.M. on Tuesday, 12:40 P.M. on Wednesday and Thursday. Freshmen and transfer Sophomores are required to attend each day, Sophomores on Wednesday and Thursday, and Juniors and Seniors on Thursday. A meeting of the Freshman Class is held each Monday at the assembly hour, and the other classes meet at appointed times.

Attendance upon all of these meetings is compulsory for all students involved.

## **SCHOLASTIC REGULATIONS FOR ATHLETIC AND OTHER ORGANIZATIONS**

The following regulations have been adopted by the Faculty:

1. Any student who receives less than a passing grade on more than six hours of his required work of the preceding term shall be ineligible to represent the University in any athletic contest, concert, or other public event.



2. Members of athletic teams or other student groups engaging in public representation of the University are expected to be carrying satisfactorily their current work. A student may be barred from participation in such representation if, in the opinion of the Dean, he is not doing satisfactorily his current work.

Duke University is a member of the Southern (Athletic) Conference and observes the following scholastic requirement of that Conference:

"The scholastic requirement for eligibility to participate in varsity intercollegiate sports shall be for 1938-39 the passing by the applicant of a minimum of twenty-one semester-hours or thirty quarter hours of the work of his immediately preceding year in college; thereafter the passing of twenty-four semester-hours or thirty-six quarter hours of the said work; with the proviso that graduate students and students in schools of law and medicine become scholastically eligible on the certificate of the deans of their schools."

### THE ATHLETIC COUNCIL

The Board of Trustees, at its regular annual meeting in June, 1907, created an Athletic Council to be composed of eleven members appointed annually: three from the Faculty, to be appointed by the President of the University; four from the alumni, elected by the Alumni Association; and four from the undergraduates, one from each of the four classes, elected by the members of each class.

The three members of the Athletic Committee of the Faculty are the Faculty representatives in the Athletic Council. This committee alone has the responsibility of enforcing the scholastic and athletic requirements of the University for student participation in intercollegiate sports. The athletic eligibility rules are those of the Southern Conference; the scholarship requirements are printed elsewhere in this catalogue.

The Executive Committee of the Athletic Council is composed of the Chairman of the Faculty Committee on Athletics, and one other Faculty member and one alumni member of the Council. The Athletic Council on recommendations of its Executive Committee arranges athletic schedules, awards insignia of merit earned by members of athletic teams, and strives to promote among students of the University a proper and helpful athletic spirit; to encourage good fellowship in such sports both within the student body and toward student bodies of other educational institutions; through athletic sports to help to cultivate a high sense of honor, earnest, unselfish effort, and manly conduct. The Executive Committee of the Council recommends to the President of the University persons to serve as Graduate Manager of Athletics and as coaches in the various sports. However, the election of such persons rests solely with the Trustees of the University or the Executive Committee of the University, on recommendation of the President of the University.

All funds arising from athletics are handled entirely by the Treasurer of the University. An audit of the receipts and disbursements of these funds is made annually by the official auditors of the University.

### CONDUCT OF STUDENTS

The University expects of its students loyal and hearty co-operation in developing and maintaining high standards of conduct as well as of scholarship. The University therefore reserves the right, and matriculation by the student is a concession of this right, to ask the withdrawal of any student whose conduct at any time is not satisfactory to the University, even though no specific charge be made against the student.

### ADMINISTRATION OF DISCIPLINE

General oversight of the conduct of students and the administering of discipline are vested in the Dean of the University. The duty of immediate supervision, guidance, and control of the students in each college is entrusted to the Dean of that College. However, through the expressed willingness of the students at the University to assume the responsibility of maintaining high standards of morals and honor at all times, the student body has properly become in a great degree self-governing in this respect. Two councils, one of men and the other of women, each composed of carefully chosen and duly elected representatives of the student body, exercise the authority granted the students to investigate all cases of misconduct, as well as all other cases of violation of proper student standards and traditions and to make recommendations of penalties based on their findings. Occasions seldom occur where such recommendations are not accepted and enforced.

The student councils have been of great help to the administrative authorities of the University. They not merely exercise police authority for restraining and punishing evildoers but also exert a guiding and stimulating influence for the promotion of high ideals of conduct and student relationships.

### REGULATIONS REGARDING PUBLIC LECTURES AND OTHER PUBLIC OCCASIONS

All public lectures or addresses and other public events that are given under the auspices of the University or of any organization in any way connected with the University are under the supervision of the Faculty Council on Public Lectures. All dates and programs must be approved by this council except in instances where such occasions have been placed under the supervision of the Director of Public Relations.

(1) The Council on Public Lectures shall provide each year an official calendar.

(2) All public occasions held on either the East or West University Campus are listed for the Weekly Calendar of Duke University in the office of the Department of Public Relations and Alumni Affairs in the

West Campus Union. This calendar appears each Saturday, and such notices must be received by 10:00 A.M. on the Friday preceding.

Social or other events held in the West Campus Union must be listed in the office of the Director of Public Relations and Alumni Affairs, and permission must be secured for such social use of the public rooms in the building.

### REPORTS

Reports of the class attendance records and of the proficiency of each student in studies are sent to his parents or guardians after the examinations at the end of each semester. For Freshmen, mid-semester reports are made.

### HEALTH AND PHYSICAL EDUCATION

The program of Health and Physical Education in Duke University has four distinct phases, as follows:

1. Student Health.
2. Physical Instruction.
3. Intramural Sports.
4. Intercollegiate Athletics.

### MEDICAL CARE

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated students of the University, during both the college year and the summer quarter, at no additional cost to them beyond the medical fee of \$5.00 payable each semester or the medical fee charged each student of the summer quarter. This service is under the direction of the University Physician with the co-operation of the Staffs of the Infirmarys (one on each campus) and the University Hospital. It includes hospitalization, medical and surgical care, drugs, dressings, X-ray work, and ward nursing. A charge for board is made at the same rate as in the University dining-halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes, treatment of teeth and of all chronic ill conditions, such as the removal of diseased tonsils and treatment of injuries incurred off the campuses, are not included in this service. The cost of any necessary braces and orthopedic appliances, as well as of special nursing, must be borne by the student.

No illness is treated in dormitory or other rooms occupied by students. Students needing treatment for minor medical or surgical conditions have the attention of the Director at his two daily visits to the Infirmarys, which have day and night nurses on duty. Students developing serious conditions are promptly transferred from the Infirmarys to the University Hospital, where they come under the care of the Staff of the Hospital.

A questionnaire is sent out from the office of the Director of Student Health in the spring to all prospective students, advising certain medical and surgical care by their home physician or surgeon, such as the giving

of typhoid or smallpox vaccine, removal of diseased tonsils, correction of errors of refraction, repair of a hernia, or removal of a chronic appendix. Important time is frequently lost in correcting these conditions after entrance into college, and the cost for this work must be borne by the student.

When the student comes to the University, he is given a careful physical examination. Any physical defects are recorded along with the record of the questionnaire from the family physician. All students are requested to be successfully vaccinated against smallpox before admission to the University. It is urgently advised that they take typhoid vaccine if they have not done so within three years.

#### **PHYSICAL EDUCATION AND INTERCOLLEGIATE SPORTS TRINITY COLLEGE**

The University requires all students to engage in some type of physical activity for two years or four full semesters. This work consists of participation in natural, practical, physical activity for at least three one-hour periods each week. A credit of six hours, with an average grade of "C," is required in physical education for graduation. The aims of this work are to improve body control and strength through big muscle activities, to stimulate the development of mental and physical alertness, to establish habits of regular exercise, and to give training and experience in various kinds of recreational sports that will be indulged in after the student graduates from the University.

Intramural sports are fostered and promoted in all lines of athletic activity. Meets, tournaments, and leagues are seasonally organized in the different sports. All students in the University are eligible to enjoy the intramural privileges, provided they comply with the intramural rulings. Participation in these activities is entirely voluntary, but is very popular because it provides an opportunity for every man to enter into competition and recreation in those sports which he enjoys most.

The intercollegiate athletic program is controlled entirely by the University and consists of the organization and training of representative Freshman and varsity teams in the following sports: football, basketball, baseball, track, cross country, swimming, boxing, wrestling, tennis, and golf.

#### **WOMAN'S COLLEGE**

A medical and physical examination is required of each student upon entrance, and follow-up examinations are given as needed. These examinations are used as a basis for determining the type of physical exercise a student should take and any other corrective measures needed. Special remedial and corrective classes as well as rest periods are provided for students who cannot engage in the usual sports and activities. It is the aim of the Department to develop in the student, not only physical ability, but, more especially, proper habits of living in order that her work may be carried on to the best advantage.

In addition to the required work in physical education, there are intramural activities sponsored by the Woman's Athletic Association, and

opportunities for the use of the swimming pool, tennis course, athletic fields, and other sports equipment.

### **PUBLICATIONS COUNCIL**

The student publications of the University are under the control of a council that was established in 1924 and reorganized by the Executive Committee of the University in 1935, and is constituted as follows: three (3) members from the University Staff appointed by the President of the University; two (2) members from the alumni appointed by the President of the University; six (6) men from the Junior and Senior classes, elected by the students in Trinity College; four (4) women from the Junior and Senior classes, elected by the students in the Woman's College; and three (3) editors and three (3) managers of student publications, ex officio members without any voting power. With the advice of the Council, the President of the University appoints each year for each publication an advisory committee of three (3) members from the Staff of the University.

No student publication can be started at the University without the approval of the Council.

### **RELIGIOUS EXERCISES**

Chapel exercises are conducted on Tuesday, Wednesday, and Friday throughout the academic year at 12:30 P.M. on the campus for men and at 12:30 P.M. on the campus for women. Preaching services are held on Sunday at 11:00 A.M. in the University Chapel. Organ recitals are given on Sunday afternoons. In the summer carillon and organ recitals are given twice a week.



## FEES AND EXPENSES

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The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences and in history. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

### GENERAL FEES

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage fee, payable annually at the time of first registration.....	1.00
Medical fee, per semester.....	5.00
Library fee, per semester.....	5.00
Commencement fee, payable annually at the beginning of the second semester .....	3.00
Publication fee:	
First semester .....	2.50
Second semester .....	3.00
Diploma fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00

### LABORATORY AND MATERIALS FEES

Botany 1, 2, 52, 55, 104, 156, 202, 204, 221, 255, and 256.....	\$ 2.50
Botany 51, 103, 151, 203, 216, and 252.....	5.00
Forest Botany 224 and 253.....	2.50
*Chemistry 1, 2, 61, 70, 81, 142, 153, 154, 215, 216, 231, 232, 260, 261, and 262 .....	7.00
Chemistry 151, 152, 241, 242, 253, and 254.....	8.50
Education 1, 58, 68, and 101.....	1.00
Education 54 .....	2.00
(See note under history below.)	
Education 112, 115, 116, 122, and 131 .....	7.50
Education 208 (for testing materials in lieu of text).....	2.50
Engineering	
Civil S10 and S110—See <i>Summer School Bulletin</i> .	
Civil 11, 107, 111, 112, 113, 114, 117, 118, 119, 123, 124, and 240.....	2.00
Electrical 153, 154, 161, 162, 163, 258, 261, 262.....	2.00
Mechanical 189, 190, 193, 194, 199, and 200.....	2.50
Forestry 224, 253, 259, 260, 264, 357a, and 358a.....	2.50
Forestry 261, 351, 352, 357b, 358b.....	5.00
Geology 51, 52, 101, 151, and 152.....	2.50
Geology 102 .....	5.00
Field trip in Geology 51-52 and 101-102 at cost.	

\* When the laboratory in Chemistry 153-154 supplements that of another course and is taken simultaneously with such course no fee is charged for Chemistry 153-54.

History 91 and 92 .....	3.00
No texts are required in these courses, but a fee of \$3.00 is charged, and books are placed in the Library for the use of those taking the courses. This fee is payable at the beginning of the semester and is collected through the office of the Treasurer of the University.	
Physics 1 and 2.....	2.00
Physic 57, 58, 104, 205, 206, 215, 216, 217, and 218.....	3.00
Physics 51, 52, and 106.....	5.00
Zoology 1, 2, 92, 161, 174, 204, 222.....	3.00
Zoology 53, 151, 156, 224, and 229.....	5.00
Zoology, all other advanced laboratory courses.....	3.00

### TEACHERS TAKING COLLEGE COURSES

Teachers in nearby schools, taking one or two courses, are required to pay a registration fee of \$5.00 each semester and a tuition fee of \$3.00 per semester-hour of credit in addition to any regular laboratory fee or other fees collected from those students taking the courses.

### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost, while all charges made by the University have been kept low. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary college expenses for one year, including board, room-rent, and such University fees as tuition, matriculation, commencement, library, damage, and medical, vary from \$574.50 to \$639.50. Books and laundry are not included in these figures.

### LIVING ACCOMMODATIONS FOR MEN

Single room, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus .....	\$75.00
Double room, per student, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus .....	62.50
Double room, per student, per semester—Southgate Hall, East Campus..	50.00
Double room, per student, per semester—Epworth Hall, East Campus..	30.00

There are three groups of resident houses designated as Craven, Crowell, and Kilgo Quadrangles on the West Campus. The rooms are single, double, or arranged in suites of two rooms for four students. There are thirty-one houses within the three groups designated by the letters of the alphabet. There are also two dormitories on the East Campus used for men—Southgate and Epworth Halls. All of these rooms are equipped for two persons.

Kilgo Quadrangle (eight houses) has been set aside as a Freshman Dormitory. A portion of Southgate Hall has also been reserved for Freshmen studying Engineering. All Freshmen, except those living at home with their parents, are required to room in one of these dormitories.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of

\$25.00 must accompany the application for a room. The reservation fee is deducted from the room charges at the time of registration for the fall semester. An applicant who is accepted and has a room reserved is not entitled to a refund of the reservation fee unless the request is made on or before August 1.

A resident student in order to retain his room for the succeeding year is requested to make application accompanied by a reservation fee of \$25.00 between April 15 and May 15 at the office of the Director in the Business Division. All rooms which have not been reserved on or before May 15 will be considered vacant for the succeeding year and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or in the case of a medical student, one quarter, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

### DORMITORY REGULATIONS

Duke University is particularly eager that its students shall have the best dormitory life to be found in any institution, and to encourage this has provided buildings and equipment which are not surpassed. The Institution asks and believes that in return each student will respond to this effort by arranging his personal belongings in an orderly manner, and by caring for the buildings and furniture as he would do in the home of a friend. The following regulations are offered as a guide and a reminder that care is desired.

1. The student will be held responsible for any damage to the room or furnishings during the rental period, and will pay for all damage caused by his neglect, misuse or abuse of any part of the University property. Inspections will be made throughout the college year to observe the condition of the rooms and to advise students concerning the care of rooms, if necessary.

2. Maids will prepare the rooms daily except Sunday, the service beginning promptly at 8:00 o'clock A.M. and ceasing at 1:00 o'clock P.M., thereby giving the student complete use of his room during the afternoon.

3. University furniture or furnishings must not be removed from the room in which they have been placed by the University.

4. Electric wiring, door locks, window screens, steam or water lines should not be changed or added, since the University supervises and makes such changes as are necessary and advisable.

5. Pictures, pennants, clippings should be hung from the picture moulding and not tacked or pasted on walls or woodwork.

6. Each student is expected to supply necessary sheets, blankets, pillows, rugs and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

7. All trunks and heavy luggage will be stored in the trunk rooms. Janitors will remove the trunks from the hallways to the storage rooms when they are unpacked.

8. The exchange of rooms or keys should be arranged for at the office. Any exchanges made otherwise will subject the participant to charges for both rooms.

9. The use or possession of intoxicating liquors, wines or beer, and gambling in any manner in any of the buildings or on the grounds of Duke University is forbidden.

10. Animals shall not be kept in the dormitories.

11. Women are permitted in the dormitories only when accompanied by the University Hostess.

12. The use of dormitory rooms as a sales office or storeroom, or the solicitation for sales or gifts, within the buildings or on the grounds is prohibited except by appointees of the University.

### LIVING ACCOMMODATIONS FOR WOMEN

The Woman's College campus, known as the East Campus, is situated about a mile and a quarter from the West Campus, with a private road connecting the two.

*Houses*—The seven residence houses on the East Campus are Alspaugh, Aycock, Bassett, Joseph G. Brown, Giles, Jarvis, and Pegram. A plan of the houses will be sent upon request to the Director in the Business Division, College Station, Durham, North Carolina. Each house has a resident head of house and paging system for announcing visitors.

*Rooms*—All questions concerning rooms should be addressed to the Director in the Business Division. The students' rooms are single, double, or arranged in suites of two rooms for two students.

*Room Furnishings*—Rooms are supplied with all necessary furniture. Curtains, towels, sheets, pillow-slips, blankets, and heavy bed covering, etc., are furnished by the students. Sash curtains of a standard type are required and can be bought at the College Store. Draperies, rugs, and study lamps can be brought from home or bought at reasonable prices from the College Store or in the City.

#### *Room Rent*—

Single room, per student, per semester, Giles, Alspaugh, Pegram.	
Bassett, Brown and Jarvis Houses.....	\$87.50
Double room, per student, per semester, Giles, Alspaugh, Pegram	
Bassett, Brown and Jarvis Houses.....	62.50
Single room, per student, per semester, Aycock House.....	75.00
Double room, per student, per semester, Aycock House.....	50.00

*Room Reservation*—A room reservation fee of \$25.00 is required before any room reservation can be made for new or returning students. This fee is deducted from the room charges at the time of registration for the fall semester. Applicants for admission are requested not to send the room reservation fee until notified of acceptance. Those who make application and are accepted will not be entitled to have the reservation fee refunded unless the request is made on or before July 15.

No room assignments will be made for new students until they have been officially accepted by the Council on Admissions. The room reservation fee of \$25.00 is payable immediately upon notification of acceptance by the Council on Admissions. If room reservation fee has not been received within ten days after notification of acceptance by the Council on Admissions, the admission will be cancelled.

Details relative to the signing of rooms by resident students will be posted on dormitory bulletin boards about April 15. Resident students have the right to retain their rooms for the ensuing year or to sign for new ones in the order of their class, beginning with the Seniors. The new students are then assigned the remaining rooms, and in so far as possible, the type of room which they prefer. The University is responsible for the fall semester only for securing roommates for new students desiring double rooms. After a student has been a resident for one semester, the responsibility for securing and keeping a room-



mate is transferred to the student. If a student occupying a double room does not have a roommate by the date posted, approximately two weeks after the beginning of the semester, she will be required to pay double rent. The University is glad to co-operate in assisting the student to find a roommate.

When a room is once engaged by a student no change will be permitted except with the consent of the Director in the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. Rooms are rented for no shorter period than one semester. When a student leaves school before the end of the semester, the charge is \$1.00 per day unless the total charge on this basis is in excess of the room rent for the semester. All undergraduates who are not residents of Durham are required to live in the dormitories unless they are living with their parents or near relatives. An undergraduate woman who is over twenty-one years of age and who wishes to live in the city may make special arrangements with the Dean. Provision is made for graduate students to live on the campus.

No visitors are permitted in any sections of the dormitories which are occupied by women except by permission of the office of the Head of the House. Merchandising, solicitation, or advertising of any type is strictly forbidden within the dormitories.

### BOARDING ACCOMMODATIONS

*Trinity College, West Campus.*—Beginning with the academic year 1930-31 the University opened its dining hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. Charges for board will not exceed \$25.00 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barbershop, and all publication staff offices.

In addition to the Union dining halls, the Coffee Shop is operated for the convenience of students and visitors.

*Woman's College, East Campus.*—The dining halls of the Woman's College are situated in the Union, the student center, on the East Campus. No resident woman is permitted to board elsewhere than at this Union. Board is \$112.50 per semester.

Because of the large number of those served in the Union dining halls, it is not possible to arrange special diets for individual students. Special diet for the sick is served in the Infirmary.

The Union includes a Faculty dining room, a lounge, and other rooms for various student activities.

### LAWS REGULATING PAYMENTS

The Executive Committee of Duke University has enacted the following regulations which govern the payment of all fees due the University:

1. The President and the Treasurer of the University have no authority to suspend or in any way alter these regulations.
2. Matriculation and tuition fees are never refunded.



3. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full.

4. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all of his indebtedness to the University.

5. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the mid-year or final examinations of the academic year.

When a student wishes his bills sent to his parent or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties, if his bills are not paid on the dates advertised.

### **TRANSCRIPTS**

Students desiring to transfer from Duke University to another institution are entitled to one transcript of their record. A charge of \$1.00 is made for each additional copy.

## SCHOLARSHIPS, LOANS, AND EMPLOYMENT AID

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Through a committee of the Faculty appointed by the President to deal with problems of rendering financial assistance to needy and worthy undergraduates both of Trinity College and the Woman's College, Duke University annually awards available scholarships, administers loan funds, and supervises student employment.

All student loan funds are kept separate and distinct from all other endowments or holdings of the University. Though some donors or their representatives may and do suggest terms and beneficiaries, no loan is made without the approval and consent of the Committee.

The scholarship funds are, in the main, endowed, though a limited number, and notably the honorary awards in recognition of scholastic merit, are financed through current funds of the University. As with the loan funds, donors of endowed scholarships may, and frequently do, make stipulated terms of the conditions of the award; but in all cases the responsible committee of the University reserves the right to approve and announce all awards. All scholarship endowments are held in trust by the University.

With few exceptions, loan and scholarship awards are limited to the amount of the tuition charges.

Prospective and old students must, if they will stop to consider, realize that no college or university has scholarship, loan, or job resources sufficient to meet all, or even a large per cent, of the requests made. A student, new or old, should realize that before he seeks aid of any institution, his need should be imperative. A student who accepts aid from a college or university when he could have done without it, unwittingly deprives some other would-be student, probably equally as worthy and more needy, of a chance to secure higher education at the institution.

Before applying to any college for aid a student should first have exhausted all means of aid from his parents, kinsfolk, interested friends, and commercial or civic agencies in his home locality.

A list of undergraduate scholarships and loans, and the procedure and terms of making application, are set forth below.

### SCHOLARSHIP FUNDS

*The Banks-Bradshaw Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The Herbert J. Bass Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The Christian Education Scholarship* is based on the annual earnings from a \$6,000 scholarship endowment.

*The E. M. Cole Scholarships* are based on the annual earnings from a \$10,000 scholarship endowment. Awards are limited to undergraduate ministerial students.

*The W. L. Cuninggim Scholarship* is based on the annual earnings from a \$7,500 scholarship endowment. Preference, at the request of the donors, is given to students entering Duke University from the Methodist Orphanage of Raleigh, North Carolina.

*The Arthur Ellis Flowers Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The Colonel George W. Flowers Scholarship* is based on the annual earnings from a \$5,000 scholarship endowment.

*The B. D. Heath Scholarship* is based on the annual earnings from a \$2,000 scholarship endowment. Preference is given to students from Union County, North Carolina.

*The Judd Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment. In making this award the donor or a representative of his family is to be consulted.

*The Frank S. Lambeth Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The O. G. B. McMullan Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The W. H. Moore Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The J. A. Odell Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The J. M. Odell Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The E. J. Parrish Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The John T. Ring Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The George W. Watts Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The C. E. Weatherby Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

A friend of Duke University has set up a scholarship fund for the use of students preferably from Durham and Perquimans counties of North Carolina. Descendants of the donor, irrespective of their place of residence, are to be given consideration for such awards. The donor has designated that a representative of his family should be consulted in the making of awards. There are at present fifteen of these scholarships. They have no fixed value. Circumstances in all cases determine the amounts of the awards; usually, however, these scholarships are sufficient in amount to cover tuition charges.

A friend of Duke University has set up a scholarship fund the income of which is for the use of students preferably from the states of North Carolina, South Carolina, and Louisiana.

*The Angier B. Duke Memorial, Incorporated*, awards through the Scholarship Committee of Duke University four scholarships with an annual value of \$250 each to undergraduate students. These scholarships are awarded as follows: one on the basis of merit and necessity to an

accredited high or preparatory school graduate entering the Freshman Class of Duke University; and one each to a member of the Sophomore, Junior, and Senior classes on the basis of merit, necessity and worthy individual contributions to university life. This fund is primarily for student loan purposes and is more fully described hereafter under "Loan Funds."

Fifteen honorary scholarships paying tuition are annually awarded to undergraduates. Five are held by members of the Sophomore Class, five by members of the Junior Class, and five by members of the Senior Class. Sophomore scholarships are awarded on the basis of scholastic work of the Freshman year; Junior scholarships on the basis of the scholastic work of the Sophomore year, and Senior scholarships on the basis of the scholastic work of the Junior year. Scholastic attainments and character are the sole bases of these awards.

Where funds are available and the need justifies, Duke University may award in any given year undergraduate scholarships partly or wholly covering tuition charges. Not in excess of fifty such awards shall be made.

Application for scholarship aid should be made to the Scholarship Committee, Secretary's Office, Duke University Station.

An application for a scholarship may not be made formally by a prospective student until application for admission has been made, all necessary credentials presented and notification of acceptance given.

### LOAN FUNDS

*The Angier B. Duke Memorial, Incorporated*, administers through an advisory committee of the officers of the University, a loan fund for students of the University. Only the earnings of this fund are available for loan purposes.

The Committee of University officers also administers other endowed loan funds established for the benefit of students of Duke University. The amount available each year depends on the annual earnings and on the amount of loans repaid.

Although the total amount of loan aid is considerable, the calls for assistance far exceed the amount available for lending purposes each year. The Committee in charge of these funds, therefore, reserves the right to select from the applicants those who in character, personality, general promise, scholastic merit, and degree of financial need, are most deserving of consideration.

The loan funds are administered in accordance with the following regulations:

1. No loan shall be made to a student who violates any of the regulations of the University or whose classwork is not satisfactory to the Faculty.

2. As a general policy a student is not potentially eligible for loan assistance until he has been in residence at least one semester and until those responsible for the administration of loan funds have had an oppor-

tunity to acquaint themselves with the worthiness and the need involved in any particular case.

3. Loans will be made only to students who are taking approved courses of study that lead to a degree, and all loans must be arranged for not later than one week after the beginning of a semester.

4. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money shall be advanced before a note with approved security is in the hands of the Treasurer of the University.

5. No loan will be made to defray any other expenses than those incurred during the academic year for tuition, for matriculation, or for room-rent.

6. Interest at a rate of 6 per cent annually shall be charged for all loans of money, and the interest must be paid annually.

7. Applications for loans should be made to the Loan Committee, Secretary's Office, Duke University Station. A formal application for loan assistance may be made only on blanks furnished in the Secretary's Office at the time of registration. The granting or withholding of a loan is a matter entirely within the discretion of the Loan Committee. A student is expected to use all other possible means of securing financial assistance before applying for aid from the Loan Fund.

### EMPLOYMENT

A number of students each year secure part-time employment on the University campus and in the city. Those in need of such employment may apply to the Secretary of the Committee on Student Aid, Secretary's Office, Duke University. No definite number of such places can be promised. Available places will be assigned in accordance with the merit and the need of the applicants.



## HONORS AND PRIZES

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To be eligible for Honors a student must earn during the year a credit of not less than thirty semester-hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality-points per semester-hour are given Honors. All semester-hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Arts or of Bachelor of Science with distinction is conferred under the following rules:

Students who have completed a minimum of ninety semester-hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality-points per semester-hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality-points per semester-hour are recommended for a degree *summa cum laude*. All semester-hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

## MEDALS AND PRIZES

The *Wiley Gray Medal* was established by the late Robert T. Gray, Esq., of Raleigh, North Carolina, to be awarded annually in memory of his brother. It is given for the graduating oration that shall be, in the opinion of a committee, the best speech, with respect to both declamation and composition.

The *Debate Council* authorizes the awarding of medals to members of the graduating class who have represented the University in at least two intercollegiate debates. The medals are given by the local chapter of the Tau Kappa Alpha Fraternity.

The *Southern History Prize* is awarded each year for the best essay dealing with a subject relating to Southern history. The prize is \$25 in cash donated by an anonymous friend of the University. The competition for the prize is conducted according to the regulations adopted by the Trinity College Historical Society.

The *Robert E. Lee Prize* is the gift of the Reverend A. W. Plyler, of the Class of 1892, and Mrs. Plyler. The sum of \$50 is awarded annually at Commencement, preferably to that member of the Senior Class who in character and conduct, in scholarship and athletic achievement, in many virtues and the capacity for leadership, has most nearly realized the standard of the ideal student. The Dean of the College, the Graduate Manager of Athletics, and the President of the Student Council constitute a committee to draft and adopt regulations governing the award.

The *Dr. R. C. Parker Physics Prize*. Dr. R. C. Parker gave to Duke University a silver cup of Chinese manufacture to be used for the en-

couragement of scholarship in physics. The award is made annually by a committee from the Department of Physics, acting with the President of the University, to that student of Physics 1-2 who by the end of the academic year is judged to have shown the greatest promise as a student of physics. The winner is chosen not only for his mathematical grades but also for his industry, growth in power of reasoning, originality of point of view, and skill in experimentation. The name of the winner is engraved on the cup which is given into his possession, subject to certain necessary regulations, until the next award is made.

*The Iota Gamma Pi Scientific Prize.* The Iota Gamma Pi Science Fraternity offers an annual prize of \$25 to a member of the Junior Class, majoring in science, who is judged to be the leading student in the scientific courses of the University. The fraternity submits to the judges a list of students eligible for the prize. The committee of award is composed of the Dean of the University and one member each from the Departments of Geology, Botany, Zoology, Chemistry, Physics, and Engineering. The departments concerned choose their own representatives on this committee. The award is made on the following basis: quality of scientific work, 50 points; personality and general ability, 30 points; quality of work in departments other than scientific, 20 points. The president of the fraternity publicly awards the prize in chapel during the second week in May.

*Alpha Kappa Psi Medallion.* This prize is offered each year to the member of the graduating class who makes the highest record in economics and business administration during his career at the University.

*The Willis Smith Prize.* Mr. Willis Smith, a member of the Raleigh Bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of Law School work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose.

*Julia Dale Prize in Mathematics.* This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

*The Milmow Prize,* consisting of one year's subscription to the *Electrical World*, is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the Faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

## STUDENT ORGANIZATIONS AND ACTIVITIES

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*The Men's Association of Duke University* comprises all men students in the University. It functions through its officers and a council to initiate policies and to oversee matters within the control of the student body. The council is composed of seven members: three from the Senior Class, two from the Junior Class, one from the Sophomore Class, and one from the Graduate School.

*The Women's Student Government Association* is similar in character to the Men's Association. Its council is composed of the officers of the association and ex officio of the Y. W. C. A. president and an undergraduate representative.

*The Young Men's Christian Association* and the *Young Women's Christian Association* are student branches of the national Christian Associations. Each body aims to enrich not only the religious life of its members as individuals but also to promote religious group activity. Delegates are sent each year to summer conferences, state conventions, inter-state conventions, and the state Bible and missionary institutes. Every year a series of special religious services is held. Bible and missionary study classes and Sunday-School teacher-training courses are conducted under the auspices of the association by members of the Department of Religion.

Other organizations and activities include the following:

Classical Club; Columbia Literary Society; Cosmopolitan Club; Crowell Scientific Society; Debate Council (Men); Debating Club (Women); Forum Club; League of Women Voters; Nereidian Club (Women); Physics Club; Polity Club; Student Volunteer Band; The Duke Players; The Explorers' Club; The French Club; The Ministerial Association; Town Girls' Club; Trinity College Historical Society; Women's Athletic Association; and the W. H. Pegram Chemistry Club.

### HONORARY ORDERS AND FRATERNITIES (NATIONAL)

Alpha Kappa Psi (Economics); Chi Delta Phi (Literary—Women); Delta Phi Alpha (German); Kappa Delta Pi (Education); Omicron Delta Kappa (Leadership); Phi Beta Kappa (Scholarship); Phi Eta Sigma (Freshman Scholarship); Phi Sigma (Biology); Pi Gamma Mu (Social Sciences); Pi Mu Epsilon (Mathematics); Sigma Pi Sigma (Physics); Sigma Upsilon (Literary—Men); Sigma Xi (Scientific Society); Tau Kappa Alpha (Forensic); Theta Alpha Phi (Dramatic); Sigma Delta Pi (Spanish).

### HONORARY ORDERS AND FRATERNITIES (LOCAL)

Beta Omega Sigma (Sophomore—Men); Delta Phi Rho Alpha (Athletic—Women); EKO-L (Scholarship—Women); 9019 (Scholarship—Men); Iota Gamma Pi (Scientific); Red Friars (Leadership—Men); Tombs (Athletic—Men); Sandals (Sophomore—Women); White Duchy (Leadership—Women).

**ENGINEERING ORGANIZATIONS AND FRATERNITIES**

American Institute of Electrical Engineering; American Society of Civil Engineering; Delta Epsilon Sigma (Honorary Engineering Fraternity); Duke Society of Mechanical Engineering; The Engineer's Club.

**MUSICAL ORGANIZATIONS AND FRATERNITIES**

Duke University Band; Kappa Kappa Psi (National Band Fraternity); Orchestra; D-men, Ambassadors; The Men's Glee Club; The Women's Glee Club; The University Chapel Choir; Symphony Orchestra; The Woman's Symphony Orchestra; The Woman's Music Study Club.

**SOCIAL FRATERNITIES (NATIONAL)**

(The Men's Pan-Hellenic Council)

Alpha Tau Omega; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Phi Sigma Delta; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Zeta Beta Tau.

**SOCIAL FRATERNITIES (LOCAL)**

Alpha Chi; Duke University Pre-Medical Society, undergraduate medical group.

**SOCIAL SORORITIES (NATIONAL)**

(The Women's Pan-Hellenic Council)

Alpha Delta Pi; Alpha Phi; Alpha Epsilon Phi; Delta Delta Delta; Kappa Alpha Theta; Kappa Delta; Kappa Kappa Gamma; Phi Mu; Pi Beta Phi; Sigma Kappa; Zeta Tau Alpha.

**THE SCHOOL OF LAW**

Order of the Coif (National Scholarship and Legal Ability Fraternity); Iredell Law Club (Local Social Club); Phi Delta Phi (National Social Fraternity); Duke Bar Association.

**THE SCHOOL OF MEDICINE**

**Social Fraternities (National)**

Nu Sigma Nu; Alpha Kappa Kappa; Phi Beta Pi; Phi Chi; Theta Kappa Psi; Alpha Omega Alpha (Honorary).

**STUDENT PUBLICATIONS**

*Archive* (Monthly); *Chanticleer* (Annual); *Chronicle* (Semiweekly).

## INDEX

- Absences, from class, 146
- Academic-Law Combination, 53
- Accountancy, 75
- Activities, Student, 165
- Administration
  - Business, 11
  - Educational, 12
  - General, 11
  - Instructional, 13
  - Physical Education and Student Health, 38
  - Public Relations and Alumni Affairs, 12
  - Social and Musical Activities, 39
  - University Chapel, 38
  - University Libraries, 35
- Admission, General Regulations, 42, 45
  - By Certificate, 43
  - By Examination, 43
  - Freshman Week, 44
  - Special Students, 44
  - To Advanced Standing, 43
  - To College, 42
  - To Engineering Courses, 61
  - Units of, 42
- Aid, Loan, 159
- American Literature, 91
- Angier B. Duke Memorial Scholarships, 160
- Argumentation, 91
- Assembly and Class Meetings, 147
- Assistants, Instructional, 27
- Athletic Council, 148
- Boarding Accommodations, 157
- Botany, 66
- Business Administration, 72, 75
- Business Law, 77
- Calendar, University, 5
  - 1938-39, 7
- Candidates for Academic Degrees, 145
  - Chemistry, 69
  - Civil Engineering, 85
  - Class Standing, 144
  - College Teaching, 50
  - Conduct of Students, 149
  - Course Cards, 142
  - Courses of Instruction, 66
    - Accountancy, 75
    - American Literature, 91
    - Argumentation, 91
    - Botany, 66
    - Business Administration, 72, 75
    - Business Law, 77
    - Chemistry, 69
    - Civil Engineering, 85
    - Commerce, 76
    - Composition, 90
    - Dramatics, 91
    - Economics, 72
    - Education, 78, 104
    - Electrical Engineering, 87
    - English, 90
    - Fine Arts, 94
    - Forest Botany, 68
    - Forestry, 96
    - French, 133
    - General Engineering, 85
    - Geology, 99
    - German, 99
    - Greek, 102
    - Health, 104
    - History, 107
    - Hygiene, 107
    - Industry, 76
    - Italian, 135
    - Latin, 111
    - Law, 114
    - Mathematics, 114
    - Mechanical Engineering, 88
    - Music, 118
    - Philosophy, 118
    - Physical Education, 104
    - Physics, 122
    - Political Science, 124
    - Psychology, 126
    - Public Speaking, 91
    - Religion, 129
    - Roman Studies, 111
    - Romance Languages, 133
    - Sociology, 136
    - Spanish, 135
    - Zoology, 138
  - Courses on the Middle and Far East, 140
- Dean's List, 146
- Deficiencies in Composition, 145
- Degrees, Requirements for,
  - Bachelor of Arts, 45
  - Bachelor of Science, 57
  - Bachelor of Science in Engineering, 61
- Discipline, Administration of, 149
- Dormitory Regulations, 155
- Dramatics, 91
- Economics, 72
- Education, 78
  - Physical Education, 37, 104, 150



- Electrical Engineering, 87
- Employment Aid, 159, 162
- Endowment Trustees, 10
- Engineering, 85
- English, 90
- Enrollment, 142
- Estimated Expenses for an Academic Year, 154
- Examinations, 143
- Exclusion for Failure, 144
- Executive Committee of the University, 9
- Expenses and Fees, 153
  
- Fees and Expenses, 153
- Fellows, University, 29
- Fine Arts, 94
- Forest Botany, 68
- Forestry, 96
- Fraternities, 165
- French, 133
- Freshman Week, 44
  
- General Fees, 153
- General Library, 35
- General Regulations, 42, 45, 57, 142
- General Statement, 40, 61
- Geology, 99
- German, 99
- Governing Bodies and Officers, 9
- Grades, Regulations Regarding, 143
- Graduate Assistants, 29
- Graduate Scholars, 33
- Greek, 102
- Groups of Studies for the Degree of Bachelor of Arts, 47
  - Group I, General, 47
  - Group II, Business Administration, 48
  - Group III, Religion, 49
  - Group IV, Pre-medical, 49
  - Group V, College Teaching, 50
  - Group VI, Public School Teaching, 50
    - Class A: Secondary School Teaching, 50
    - Class B: Elementary School Teaching, 51
  - Group VII, Pre-Legal, 52
  - Group VIII, Social Service, 53
  - Group IX, Academic-Law Combination, 53
  - Group X, Honors, 54
- Groups of Studies for the Degree of Bachelor of Science, 58
  - Group I, General, 58
  - Group II, Pre-Forestry, 58
- Groups of Studies for the Degree of Bachelor of Science in Engineering, 62
  - Group I, Civil Engineering, 62
  - Group II, Electrical Engineering, 63
  - Group III, Mechanical Engineering, 64
- Health, 104, 150
- History, 107
- Honors and Prizes, 163
- Honors Group, 54
  
- Industrial Research Associates, 26
- Instructional Assistants, 27
- Instructional Staff, 13
- Italian, 135
  
- Laboratory Fees, 153
- Latin, 111
- Law Courses for Academic Students, 114
- Law Library, 38
- Laws Regulating Payments, 157
- Libraries, 35, 41
  - General, 35
  - Law, 38
  - Medical School, 38
  - Woman's College, 37
- Living Accommodations
  - for men, 154
  - for women, 156
- Loan Aid, 159
- Loan Funds, 161
  
- Materials Fees, 153
- Mathematics, 114
- Matriculation, 142
- Mechanical Engineering, 88
- Medals and Prizes, 163
- Medical Care, 150
- Medical School Library, 38
- Minimum Uniform Requirements for All Groups, 46, 57
- Music, 118
  
- Occasions, Public, 149
- Officers of Administration, 11
  
- Philosophy, 118
- Physical Education, 38, 104, 150
- Physics, 122
- Political Science, 124
- Pre-Forestry, 58
- Pre-medical, 49
- Prizes and Medals, 163
- Psychology, 126
- Publications Council, 152
- Public School Teaching, 50
- Public Speaking, 91
  
- Quality-Point System, Explanation of, 144

- Registration, 142
- Regulations, General, 42, 45, 57, 142
  - For Athletic and Other Organizations, 147
  - For Bachelor of Arts Degree, 45
  - For Bachelor of Science Degree, 57
  - Regarding Class Standing, 144
  - Regarding Dormitories, 155
  - Regarding Exclusion for Failure, 144
  - Regarding Grades, 143
  - Regarding Public Lectures and Other Public Occasions, 149
- Religion, 129
- Religious Exercises, 152
- Reports, 150
- Requirements for Admission to Advanced Standing, 43
  - College, 42
  - Engineering Courses, 61
  - For Special Students, 44
  - Units Required, 42
- Requirements for the Bachelor of Arts Degree, 45
- Requirements for the Bachelor of Science Degree, 57, 61
- Roman Studies, 111
- Romance Languages, 133
- Scholars, Graduate, 33
- Scholarship Funds, 159
- Scholarships, Loans, and Employment Aid, 159
- Scholastic Regulations for Athletic and Other Organizations, 147
- Senior Work, 144
- Social Service, 53
- Sociology, 136
- Sororities, 165
- Spanish, 135
- Special Students, 44
- Student Organizations and Activities, 165
- Students Transferring from Other Institutions, 145
- Teachers Taking College Courses, 154
- Time of Entrance, 142
- Transcripts, 158
- Trinity College, 40, 147
- Trustees, Committees of, 10
- Trustees, Endowment, 10
- Trustees, University, 9
- Undergraduate Scholarships, 159
- Uniform Requirements for All Groups, 46
- Units of Admission, 42
- University Calendar, 5
- University Chapel, 38
- University Fellows, 29
- University Libraries, 35
- University Trustees, 9
- Woman's College, 40, 147, 151
- Woman's College Library, 37
- Zoology, 138

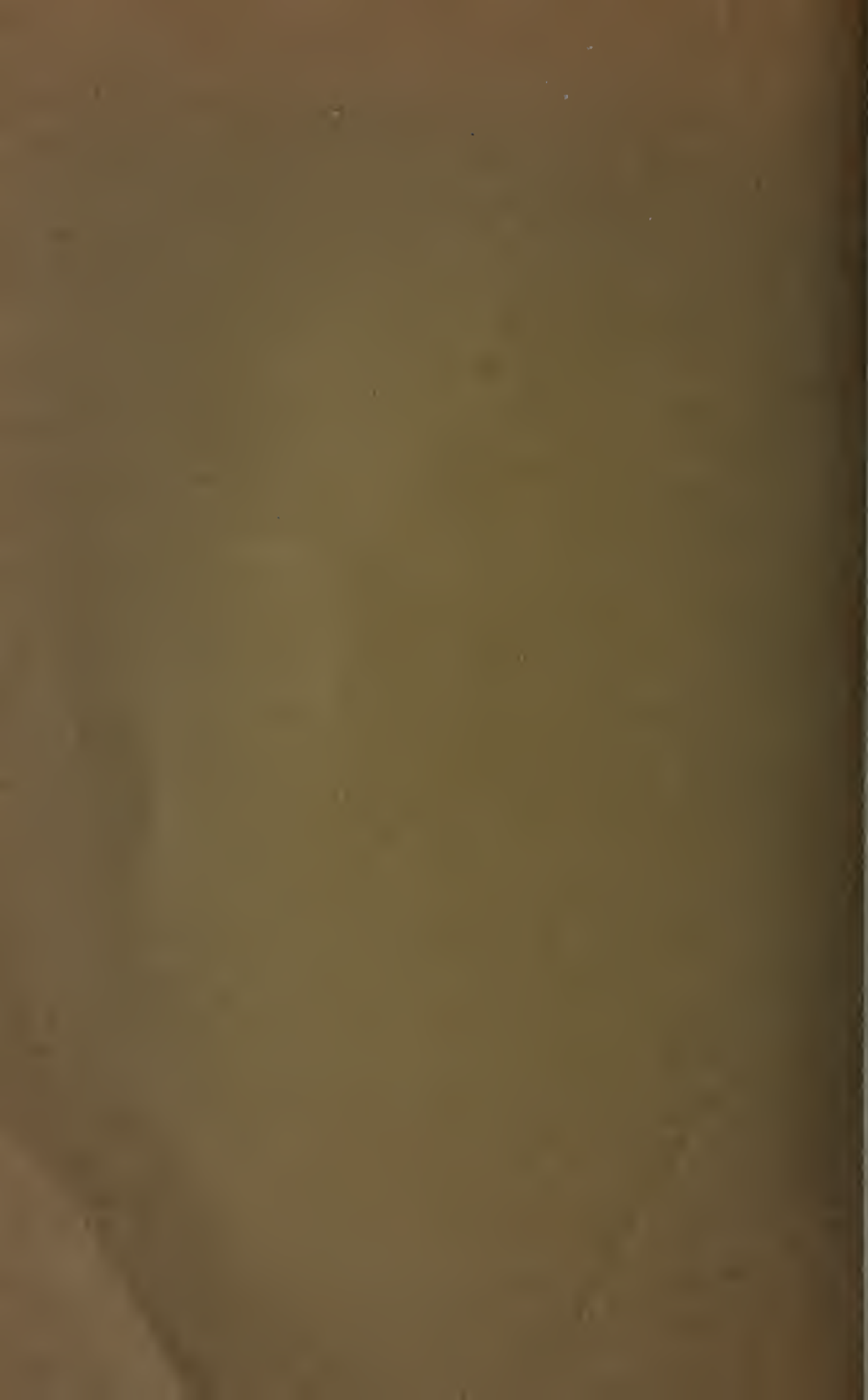












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NUMBER 4

# BULLETIN OF DUKE UNIVERSITY

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*The Graduate School of  
Arts and Sciences*



1937-1938

ANNOUNCEMENTS FOR 1938-1939

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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THE GRADUATE SCHOOL  
OF ARTS AND SCIENCES



1937-1938  
ANNOUNCEMENTS FOR 1938-1939

DURHAM, NORTH CAROLINA  
1938





## TABLE OF CONTENTS

---

	PAGE
UNIVERSITY CALENDAR.....	7
OFFICERS OF ADMINISTRATION.....	9
INSTRUCTIONAL STAFF.....	10
HOLDERS OF FELLOWSHIPS AND SCHOLARSHIPS.....	16
GRADUATE INSTRUCTION: GENERAL STATEMENT.....	23
APPOINTMENTS TO FELLOWSHIPS AND SCHOLARSHIPS.....	29
REQUIREMENTS FOR ADMISSION AND DEGREES.....	33
COURSES OF INSTRUCTION.....	39
GRADUATE COURSES IN THE SCHOOL OF MEDICINE.....	80
GRADUATE WORK IN THE SUMMER SCHOOL.....	83
FEES AND OTHER EXPENSES.....	84
ADVANCED DEGREES CONFERRED JUNE, 1937.....	87
LIST OF GRADUATE STUDENTS.....	90
SUMMARY .....	145



# 1938

JANUARY	APRIL	JULY	OCTOBER
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FEBRUARY	MAY	AUGUST	NOVEMBER
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MARCH	JUNE	SEPTEMBER	DECEMBER
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## UNIVERSITY CALENDAR

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1938

- June 13. Monday, 9:00 A.M.—Registration of students for Summer School, first term.
- June 13. Monday, 2:00 P.M.—Instruction begins for Summer School, first term.
- July 4. Monday—Independence Day: a holiday.
- July 22-23. Friday, Saturday—Final examinations for Summer School, first term.
- July 25. Monday, 9:00 A.M.—Registration of students for Summer School, second term.
- July 25. Monday, 2:00 P.M.—Instruction begins for Summer School, second term.
- Sept. 2-3. Friday, Saturday—Final examinations for Summer School, second term.
- Sept. 21. Wednesday, 11:00 A.M.—Formal opening of the College; registration of matriculated students.
- Sept. 22. Thursday—Instruction for Sophomores, Juniors, and Seniors begins.
- Sept. 22-24. Thursday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-4:00 P.M.; Friday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-5:00 P.M.; Saturday, 9:00 A.M.-1:00 P.M.—Registration of graduate students.
- Oct. 15. Saturday—Last day for submitting thesis subjects for the degree of Doctor of Philosophy.
- Nov. 7-12. French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 1.
- Nov. 11. Friday—Armistice Day.
- Nov. 14-19. German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 7.
- Nov. 15. Tuesday—Last day for submitting thesis subjects for the degrees of Master of Arts and Master of Education.
- Nov. 24. Thursday—Thanksgiving Day: a holiday.
- Dec. 10. Saturday—Duke University Day.
- Dec. 20. Tuesday, 1:00 P.M.—Christmas recess begins.

1939

- Jan. 3. Tuesday, 8:00 A.M.—Instruction is resumed.
- Jan. 10-16. Reading period.

- Jan. 17. Tuesday—Mid-year examinations begin.
- Jan. 28-31. Saturday, Monday, Tuesday—Registration for second semester.
- Feb. 1. Wednesday—Second semester begins.
- March 1. Wednesday—Last day for applying for University fellowships, graduate assistantships, and graduate scholarships.
- March 6-11. French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before March 1.
- March 13-18. German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before March 6.
- March 25. Saturday, 1:00 P.M.—Spring vacation begins.
- April 3. Monday, 8:00 A.M.—Instruction is resumed.
- April 21, 22, 23. Friday, Saturday, Sunday—Centennial Celebration.
- April 28-May 12. Reading period.
- May 1. Monday—Last day for submitting theses for degree of Doctor of Philosophy.
- May 15. Monday—Last day for submitting theses for degrees of Master of Arts and Master of Education.
- May 19. Friday—Final examinations begin.
- June 3. Saturday—Commencement opens; Senior Class Day; meeting of the Board of Trustees.
- June 4. Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 5. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

## OFFICERS OF ADMINISTRATION

---

WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., Ed.D., LL.D.  
*President*

ROBERT LEE FLOWERS, A.M., LL.D.  
*Vice-President in the Business Division*

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.  
*Vice-President in the Educational Division*

WILLIAM HENRY GLASSON, Ph.B., Ph.D.  
*Dean of the Graduate School of Arts and Sciences*

WALTER HAROLD DELAPLANE, A.B., A.M., Ph.D.  
*Assistant to the Dean of the Graduate School*

ROBERT LEE FLOWERS, A.M., LL.D.  
*Secretary and Treasurer*

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FRANK CLYDE BROWN, A.B., A.M., Ph.D.  
*Comptroller*

CHARLES BLACKWELL MARKHAM, A.B., A.M.  
*Assistant Treasurer*

JOSEPH PENN BREEDLOVE, A.B., A.M.  
*Librarian*

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## GRADUATE SCHOOL COUNCIL

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*President of the University, ex officio*

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CHARLES ABRAM ELLWOOD, Ph.B., Ph.D., LL.D.

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GEORGE THOMAS HARGITT, Ph.B., A.M., Ph.D.

CALVIN BRYCE HOOVER, A.B., Ph.D., Litt.D.

WILLIAM THOMAS LAPRADE, A.B., Ph.D.

\*\*HELGE LUNDHOLM, Fil. Kand., Fil. Lic., Ph.D.

††WILLIAM McDOUGALL, B.A., M.A., M.B., D.Sc., Litt.D.

WALTER McKINLEY NIELSEN, B.S., Ph.D.

ARTHUR SPERRY PEARSE, B.S., A.M., Ph.D.

WILLIAM PERLZWEIG, B.S., A.M., Ph.D.

ELBERT RUSSELL, A.B., A.M., Ph.D.

JOSEPH MILLER THOMAS, A.B., Ph.D.

‡‡WARREN CHASE VOSBURGH, B.S., M.S., Ph.D.

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.

‡ALBAN GREGORY WIDGERY, B.A., M.A.

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\* Deceased, January 19, 1938.

† On leave, 1937-38.

‡ On leave, first semester, 1937-38.

\*\* For spring semester, 1938.

†† On leave, spring, 1938.

‡‡ For first semester, 1937-38.

## INSTRUCTIONAL STAFF

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*The date denotes the first year of service.*

- \*ADAMS, DONALD KEITH, (1931) A.B., M.A., Ph.D.  
*Assistant Professor of Psychology* Cornwallis Road
- ADDOMS, RUTH MARGERY, (1930) B.A., M.A., Ph.D.  
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- BLACK, MARTIN LEE, JR., (1930) A.B., M.B.A., C.P.A.  
*Assistant Professor of Accounting* 135 Pinecrest Road
- BLOMQUIST, HUGO LEANDER, (1930) B.S., Ph.D.  
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- †BOYD, WILLIAM KENNETH, (1906) A.B., A.M., Ph.D.  
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- BROWN, FRANCES, (1931) A.B., Ph.D.  
*Instructor in Chemistry* 205 Jones Street
- BROWN, FRANK CLYDE, (1909) A.B., A.M., Ph.D.  
*Professor of English* 410 Buchanan Road
- BROWNELL, WILLIAM ARTHUR, (1930) A.B., A.M., Ph.D.  
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- CANNON, JAMES, III, (1919) A.B., A.M., Th.B., Th.M.  
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\* On leave, 1937-38.

† Deceased, January 19, 1938.

- CARROLL, EBER MALCOLM, (1923) A.B., A.M., Ph.D.  
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- CHILDS, BENJAMIN GUY, (1924) B.A., M.A.  
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*Assistant Professor of Forest Soils* Duke University
- COLE, ROBERT TAYLOR, (1935) A.B., A.M., Ph.D.  
*Associate Professor of Political Science* 1015 Demerius Street
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*Assistant Professor of Physics* 1607 Hermitage Court
- COOLIDGE, THOMAS BUCKINGHAM, (1935) B.A., Ph.D., M.D.  
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*Instructor in Mathematics* Tuscaloosa Forest
- EADIE, GEORGE SHARP, (1930) B.A., M.A., M.B., Ph.D.  
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- EASLEY, HOWARD, (1930) A.B., M.A., Ph.D.  
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*Professor of Church History* 2117 Myrtle Drive
- GATES, ARTHUR MATHEWS, (1909) A.B., A.M., Ph.D.  
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\* On leave, second semester, 1937-38.

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*Associate Professor of Mathematics* 1012 West Trinity Avenue
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- GILBERT, KATHERINE EVERETT, (1930) A.B., A.M., Ph.D.  
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- GOHDES, CLARENCE, (1930) A.B., A.M., Ph.D.  
*Associate Professor of English* 1104 Watts Street
- GRAY, IRVING EMERY, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Zoology* 1411 Acadia Street
- †GROSS, PAUL MAGNUS, (1919) B.S., A.M., Ph.D.  
*William Howell Pegram Professor of Chemistry* Hope Valley
- HALL, FRANK GREGORY, (1926) A.B., A.M., Ph.D.  
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*Professor of Economics* 1015 Demerius Street
- HARGITT, GEORGE THOMAS, (1930) Ph.B., A.M., Ph.D.  
*Professor of Zoology* 811 Watts Street
- HARRAR, ELLWOOD SCOTT, (1936) B.S., M.S., Ph.D.  
*Associate Professor of Wood Technology* 1402 Alabama Avenue
- HART, HORNELL, (1938) A.B., M.A., Ph.D.  
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- HATLEY, CHARLES CLEVELAND, (1917) A.B., A.M., Ph.D.  
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- HICKMAN, FRANKLIN SIMPSON, (1927) A.B., A.M., S.T.B., Ph.D.  
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\* On leave, second semester, 1938-39.

† On leave, first semester, 1937-38.

‡ On leave, 1937-38.



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\* On leave, second semester, 1938-39.

† On leave, first semester, 1938-39.

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- SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.  
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\* On leave, first semester, 1937-38.

† On leave, 1937-38.

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*Assistant Professor of Old Testament* 1107 Urban Avenue
- SWETT, FRANCIS HUNTINGTON, (1930) A.B., M.A., Ph.D.  
*Professor of Anatomy* Hope Valley
- SYDNOR, CHARLES SACKETT, (1936) A.B., Ph.D.  
*Associate Professor of History* 212 Watts Street
- TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.  
*Assistant Professor of Biochemistry and Toxicology* University Drive, Rockwood
- THOMAS, JOSEPH MILLER, (1930) A.B., Ph.D.  
*Professor of Mathematics* Legion Avenue
- THOMPSON, EDGAR T., (1935) A.B., A.M., Ph.D.  
*Assistant Professor of Sociology* Cornwallis Road
- THOMSON, ROY BERTRAND, (1938) B.S., M.F.  
*Associate Professor of Forest Economics* Duke University
- VOLLMER, CLEMENT, (1926) A.B., A.M., Ph.D.  
*Professor of German* 2114 Myrtle Drive
- VON BECKERATH, HERBERT, (1935) Ph.D.  
*Professor of Economics and Political Science* Chapel Hill, N. C.
- VOSBURGH, WARREN CHASE, (1928) B.S., M.S., Ph.D.  
*Professor of Chemistry* 2319 Englewood Avenue
- WALTON, LORING BAKER, (1929) A.B., Lic. es. L.  
*Associate Professor of Romance Languages* 1012 Green Street
- WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.  
*Assistant Professor of English* Pinecrest Road

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\* Deceased, March 27, 1938.

WAY, VERNON ELGIN, (1930) A.B., A.M., M.A. <i>Assistant Professor of Greek</i>	909 North Gregson Street
WEBB, ALBERT MICAJAH, (1903) A.B., A.M. <i>Professor of Romance Languages</i>	1017 West Trinity Avenue
WHITE, NEWMAN IVEY, (1919) A.B., A.M., Ph.D. <i>Professor of English</i>	Chelsea Circle, Hope Valley
*WIDGERY, ALBAN GREGORY, (1930) B.A., M.A. <i>Professor of Philosophy</i>	152 Pincerest Road
WILSON, ROBERT NORTH, (1910) A.B., M.S. <i>Professor of Chemistry</i>	822 Third Street
WILSON, ROBERT RENBERT, (1925) A.B., A.M., Ph.D. <i>Professor of Political Science</i>	Anderson Street
WOLF, FREDERICK ADOLPHUS, (1927) A.B., A.M., Ph.D. <i>Professor of Botany</i>	924 Urban Avenue
WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D. <i>Instructor in History</i>	2534 University Drive
YATES, ANNE, (1933) A.B., A.M., Ph.D. <i>Associate in Biochemistry</i>	Remie Road
ZENER, KARL EDWARD, (1928) Ph.B., A.M., Ph.D. <i>Associate Professor of Psychology</i>	416 Carolina Circle

## INDUSTRIAL RESEARCH ASSOCIATES

Darkis, Frederick Randolph	Chemistry	1211 Alabama Avenue
B.S., M.S., Ph.D., University of Maryland		
McLean, Ruth	Chemistry	4 Eloise Apartments
A.B., Woman's College of the University of North Carolina; A.M., Duke		

## FELLOWS AND GRADUATE ASSISTANTS

## UNIVERSITY FELLOWS

Anderson, Marcia Lee	English	2404 Club Boulevard
A.B., Bryn Mawr College; A.M., Duke		
Brice, Ashbel Green	English	05-C
A.B., A.M., Columbia		
Brown, James Wilson	Forestry	2110 Erwin Road
B.S., University of Maryland; A.M., Duke		
Burt, Everett Johnson, Jr.	Economics	1601 Duke University Road
A.B., Berea College; A.M., Duke		
Correll, Donovan Stewart	Botany	204 Epworth
A.B., A.M., Duke		
Coy, Nettie Helena	Physics	118 Faculty Apartments
A.B., University of New Brunswick; A.M., Columbia		
Culbreth, Sarah Elizabeth	Zoology	307 Watts Street
A.B., A.M., Duke		
Garber, Paul Leslie	Religion	2114 Myrtle Drive
A.B., College of Wooster; B.D., Th.M., Louisville Presbyterian Theological Seminary		
Garren, Kenneth Howard	Botany	704 Buchanan Boulevard
A.B., A.M., Duke		

\* On leave, first semester, 1937-38.

George, Theodore Samuel B.S., Grove City College; A.M., Duke	Mathematics	1026 Monmouth Avenue
Going, William Thornbury A.B., University of Alabama	English	212 Watts Street
Ligon, Edgar William, Jr. B.S., University of Richmond	Zoology	1004 Minerva Avenue
Moore, Eunice Martha B.S., Maryland College for Women; A.M., Johns Hopkins	Chemistry	118 Faculty Apartments
Morton, Louis B.S., A.M., New York	History	213 Epworth
Nelson, Melvin Frederick B.S., Mississippi State College; A.M., Municipal University of Omaha	Political Science	1411 B Street
O'Leary, James John A.B., A.M., Wesleyan	Economics	1000 Lamond Avenue
Savely, Harvey Epperson, Jr. B.S., Mississippi State College	Zoology	Route 1, Box 224
*Taylor, Charles Theodore B.S., University of Arizona; A.M., Duke	Economics	201-Q
Tilley, Nannie May A.B., Woman's College of the University of North Carolina; A.M., Duke	History	2313 Club Boulevard
Vermillion, Herbert Edward B.S., Monmouth College	Chemistry	01-C
Wang, Yen-chieh B.S., National Tsing Hua; M.S., Cornell	Forestry	704 Buchanan Boulevard
†Ward, William Smith A.B., Georgetown College; A.M., Harvard	English	302-B
Wilson, John Woodrow B.S., Duke	Zoology	905 Monmouth Avenue

## BROOKINGS-DUKE FELLOW

Fluegel, Edna Rose A.B., Marywood College; A.M., Duke	Political Science	Brookings Institution
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## GRADUATE ASSISTANTS

Ayers, John Carr A.B., Kalamazoo College; M.S., Kansas State College	Zoology	1014 Lamond Avenue
Barbour, William Johnston A.B., University of North Carolina	Botany	150 Rosemary, Chapel Hill, N. C.
Bennett, Georgia Belle A.B., College of William and Mary	Psychology	1111 Urban Avenue
Bevel, Nelle Hester B.S., College of the Ozarks; A.M., University of Arkansas	Zoology	215 Faculty Apartments
Black, Henry Arnold B.S., A.M., Boston	English	106 Epworth
Bolen, Claude Waldron A.B., Emory and Henry College; A.M., Duke	History	201-Q
Boomhour, Elizabeth Gregory A.B., Meredith College; A.M., Cornell	Botany	305 Faculty Apartments

\* A.M. to be conferred June, 1938.

† First semester only.



Brach, Earl Tilton A.B., Duke	Greek	1106 Chapel Hill Street
Bright, Robert Dietrich A.B., Dartmouth College	Chemistry	104-A
Bussell, Wilsie Florence A.B., Duke	Romance Languages	816 Watts Street
Christenson, James Andreas, Jr. A.B., Harvard	Psychology	604 Gregson Street
Cooper, Gerald Rice A.B., Duke	Chemistry	405 Gattis Street
Cox, Headley Morris, Jr. A.B., Duke	English	213-CC
Doty, Roy A., Jr. A.B., Duke	Education	2200 Chapel Hill Road
Douglass, Elinor Marie A.B., Duke	English	Box 685, College Station
Duke, Kenneth Lindsay A.B., Bringham Young	Zoology	905 Sixth Street
Dunsky, Irvin A.B., University of Newark	Sociology	221 Epworth
Ewing, Thomas Newell, Jr. A.B., DePauw; A.M., Syracuse	Psychology	2102 Englewood Avenue
Farley, John Thomas B.B.A., Manhattan College	Economics	West Campus
Feister, Irving A.B., Harvard	Physics	201-B
Fischer, Monroe Carl A.B., Duke	Economics	307-A
Flanders, Bertram Holland A.B., A.M., Emory	English	1023 Gloria Avenue
Formwalt, John McClellan A.B., Carson-Newman College	Physics	222 Epworth
Foster, Hazel Elizabeth A.B., Hood College; A.M., Duke	Political Science	102 Faculty Apartments
Fox, Theodore William A.B., Union College	Chemistry	201-B
Frey, Ellen Frances A.B., Barnard College	English	308 Faculty Apartments
Garrison, John Leland A.B., Duke	English	2212 Erwin Road
Giesey, Jean Campbell A.B., Barnard College; A.M., Columbia	Psychology	402 Buchanan Boulevard
Gilbert, Paul Wilner A.B., A.M., University of Rochester	Mathematics	210 Atlas Street
Guyton, Percy Love B.S., Mississippi State College; M.B.A., Northwestern	Economics	901 Sixth Street
Herndon, Nettie Southworth A.B., A.M., West Virginia	History	Faculty Apartments



Hodges, Carroll Broadus A.B., M.S., University of Oklahoma	Psychology	Erwin Road
Hopkins, John Isaac B.S., A.M., Duke	Physics	411 Cook Street
Howie, Naomi A.B., Greensboro College	Religion	302 Faculty Apartments
Jester, Joseph Richardson B.S., Duke	Botany	409 Gregson Street
Jones, John Sneed B.S., George Peabody College for Teachers; A.M., B.D., Vanderbilt	Philosophy	1003 Trinity Avenue
Kirby-Smith, John Seldon B.S., University of the South; A.M., Duke	Physics	209-L
Kuehner, Kenneth George A.B., Allegheny College; A.M., University of Pittsburgh	Education	916 Markham Avenue
Laverty, Carroll Dee A.B., A.M., University of Colorado	English	905 Sixth Street
Leath, James Milton A.B., Austin College; A.M., Southern Methodist	Political Science	2003 Club Boulevard
Levenson, Morris E. A.B., M.Sc., New York	Mathematics	1004 Minerva Avenue
Louis, William K. A.B., Duke	History	105-CC
Luttrell, Everett Stanley B.S., University of Richmond	Botany	1004 Minerva Avenue
Mangrum, James Freed B.S., Memphis State Teachers College; M.S., University of Tennessee	Zoology	411 Cook Street
Marston, Frederic Carver, Jr. A.B., Williams College	English	922 Sixth Street
Marston, Helen Mount A.B., Smith College	Mathematics	922 Sixth Street
Maryott, Arthur Allen A.B., Duke	Chemistry	204-B
Miles, Ernest Percy, Jr. B.S., Birmingham-Southern College	Mathematics	1703 Erwin Road
Millar, Helen Mary A.B., McMaster	Sociology	306 Faculty Apartments
*Miller, Howard Clifford A.B., Bridgewater College	Physics	Physics Building
Miller, William Long B.B.A., University of Chattanooga	Economics	818 Sixth Street
Moody, Peter Richard A.B., Wofford College	English	107-A
Park, Robert DeForest A.B., Oberlin College	Physics	918 Urban Avenue
Peck, Robert Lawrence B.S., Duke	Chemistry	819 Third Street

\* Second semester only.

*Plantinga, Cornelius A. A.B., Calvin College; A.M., University of Michigan	Philosophy	1106 Chapel Hill Street
Rein, William Christopher A.B., Western Maryland College	Education	818 Sixth Street
Roney, William Hamilton A.B., Occidental College; A.M., University of Michigan	Sociology	914 West Markham Avenue
Ryerson, Clifford Marten B.S., John B. Stetson	Physics	710 Underwood Avenue
Seward, Donald Monfort A.B., John B. Stetson; A.M., University of North Carolina	Mathematics	Route 1
Slay, James Matthew A.B., Duke	Romance Languages	010-V
Snyder, William Ulrich A.B., Gettysburg College	Psychology	1111 Urban Avenue
Stadthagen, Heinz A.B., Bethany College; A.M., Duke	Economics	1114 Eighth Street
Stevenson, James Harold B.S., Westminster College; A.M., Oberlin College	Zoology	210 Epworth
Stuckey, James Morlan B.S., Centenary College; A.M., Duke	Chemistry	01-C
*Wade, Luther Irwin †A.B., Duke	Mathematics	Dollar Avenue
Wharton, George Willard, Jr. B.S., Duke	Zoology	1120 Erwin Road
White, Mary Rebecca A.B., Fairmont State Teachers College; A.M., Duke	Latin	215 Faculty Apartments
Williams, Myra Allene A.B., Winthrop College; A.M., University of South Carolina	Zoology	201 Watts Street
Wright, James Clyde A.B., Muskingum College	Psychology	1111 Urban Avenue
Young, DeWalt Secrist A.B., Cornell College	Chemistry	01-C

## GRADUATE SCHOLARS

Bagley, Mariana Dasch A.B., Duke	History	308 Faculty Apartments
Bethel, James Samuel B.S., University of Washington	Forestry	814 Sixth Street
Brandis, Roland Buford, Jr. A.B., University of Richmond	Economics	814 Sixth Street
Breslow, David Samuel B.S., College of the City of New York	Chemistry	307-C
Bruner, Jerome Seymour A.B., Duke	Psychology	1101 North Duke Street
Cain, Herbert Lloyd A.B., Southwestern	Greek	1012 Urban Avenue

\* Second semester only.

† A.B. to be conferred June, 1938.

*Carlton, John Buford B.S., University of Georgia	Forestry	1109 Erwin Road
Clay, Leo Roderick A.B., Lynchburg College	Psychology	509 Milton Avenue
Colloms, Lester Hubert A.B., Emory and Henry College; B.D., Emory	Religion	1017 Gloria Avenue
Creegan, Robert Francis A.B., Marietta College; A.M., Duke	Philosophy	818 Sixth Street
Doty, Cornelia Allen A.B., Stanford; A.M., Mills College	Education	2200 Chapel Hill Road
Duehring, Frederica Elizabeth A.B., Duke	History	307 Faculty Apartments
Flora, William Evans Sherlock A.B., College of Wooster	Political Science	207-C
Hargreaves, Herbert Walter A.B., University of Nevada; A.M., Clark	Economics	914 Markham Avenue
Lamas, Petro Charles A.B., Emory	Greek	1009 West Trinity Avenue
MacInnes, Donald Boyer A.B., Linfield College	Philosophy	812 West Main Street
*Morgan, Kenneth James B.S., Cornell	Forestry	1636 University Drive
Morrison, Garrett Weir A.B., Kansas State Teachers College	Psychology	106 Epworth
Mountjoy, Marjorie A.B., Vanderbilt	Latin	203 Faculty Apartments
Munster, Ralf Friedrich William A.B., Duke	Political Science	206-C
Nakamura, Junichi Hiroshima University	English	806 Sixth Street
Nicholson, William Benjamin B.S., A.M., George Peabody College for Teachers	History	2016 Myrtle Drive
†Ostwalt, Jay Harold A.B., Davidson College	Education	512 Milton Avenue
Pohl, Herbert Ackland A.B., Duke	Chemistry	012-V
Pratt, Lanier Ward A.B., Davidson College	Romance Languages	213 Epworth
Putney, Anne Randolph Briscoe A.B., Farmville State Teachers College	Political Science	118 Faculty Apartments
Rawlings, Kenneth Winn A.B., Kentucky Wesleyan College; A.M., University of Kentucky	History	05-C
Scarborough, Henry Baldwin A.B., Duke	Physics	West Campus
Shaw, John Sidney A.B., Duke	History	918 Urban Avenue

\* First semester only.

† Resigned February 1, 1938.

Singer, Armand Edwards	Romance Languages	
A.B., Amherst College		2102 Englewood Avenue
Stabler, Carey Vitallis	History	2009 Pershing Street
B.S., A.M., University of Alabama		
Talbert, Robert Harris	Sociology	208 Buchanan Boulevard
A.B., B.S., Southeast Missouri State Teachers College; A.M., University of Missouri		
Thomas, Mary Elizabeth	History	306 Faculty Apartments
A.B., A.M., University of Arkansas		
Tobin, Catherine Elizabeth	Latin	302 Faculty Apartments
A.B., College of Charleston; A.M., Duke		
Toole, Eben Richard	Forestry	704 Buchanan Boulevard
B.S., New York State College of Forestry at Syracuse University		

# GRADUATE INSTRUCTION IN DUKE UNIVERSITY

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## GENERAL STATEMENT

Prior to 1916 there was no separate organization within Trinity College to promote and supervise graduate studies. However, there had been for many years a limited number of graduate students who completed a year of postgraduate work and received the degree of Master of Arts. The work of such students was supervised through the office of the Dean of Trinity College. Many of these graduate students went out from Trinity College to continue their studies at other colleges and universities and later achieved distinction as teachers and scholars.

In September, 1916, President Few appointed a Committee on Graduate Instruction to deal with the problems involved in the promotion and administration of graduate work. In that year there were six graduate students in the College, and seven graduates of the College were enrolled in the professional School of Law. During and immediately after the World War the number of graduate students remained small, but by the year 1923-24 the graduate enrollment had increased to thirty-five exclusive of the college graduates enrolled in the School of Law.

The growing importance of graduate work in Trinity College caused the Committee on Graduate Instruction, during the first semester of the year 1923-24, to make a careful study of requirements for admission to graduate work, of requirements for advanced degrees, and of other conditions affecting standards of graduate instruction. A comprehensive report was prepared by the Committee and adopted by the Faculty. Provision was made for the granting of two advanced degrees, Master of Arts and Master of Education. Regulations were adopted which increased the distinction between graduate and undergraduate work. A thesis requirement was made for every candidate for a graduate degree, and provision was made for the examination of theses by Faculty committees. The Committee on Graduate Instruction undertook a closer supervision of graduate courses and of the work of graduate students.

Thus, when Trinity College became Duke University in December, 1924, noteworthy progress had already been made in organizing a graduate department with advanced courses in many fields of study and with high standards. In accepting Mr. Duke's great benefaction, the Trustees definitely included a graduate school of arts and sciences as a member of the University organization.

In the academic year 1926-27 a Council on Graduate Instruction was established in the University to exercise a general supervision over graduate work in arts and sciences, and Professor William H. Glasson was appointed Dean of the Graduate School of Arts and Sciences.

## THE LIBRARY

The total number of volumes in the University Library on June 30, 1937, was 487,592 volumes. These are distributed among four main units: the General Library with 367,305 volumes; the Hospital (Medical) Library, 33,601 volumes; the Library of the Law School, 53,728 volumes; and the Woman's College Library, 32,958 volumes.

The work of students in the Graduate School is carried on primarily in the General Library. A Graduate Reading Room, which contains the reference material most in demand, provides a quiet and convenient place for study. Graduate students are also admitted freely to the stacks. Within the stacks are located 108 carrells or desks which are assigned on an annual basis, preference being given to students in the Graduate School. To facilitate work in the natural sciences the General Library maintains departmental libraries adjacent to laboratories for the Departments of Chemistry, Physics, and Biology. A departmental library is also maintained for the School of Religion.

In the field of mathematics and the sciences particular attention has been given to securing files of important journals and serials. A check-list of all scientific periodicals and serials on the University campus shows a total of approximately 2,650 files in a more or less complete form. The total number of current periodicals received by subscription, exchange, and gift in 1936-37 was 2,825, but leaving out the duplicates there were 2,796 titles received.

In the field of the social sciences and the humanities every effort has been made to secure the basic collections of source material as well as the more important publications of criticism and discussion. This has been done by the acquisition of such sets as the *Die Griechischen Christlichen Schriftsteller der ersten drei Jahrhunderte*, *Corpus Scriptorum Ecclesiasticorum Latinorum*, Migne's *Patrologia*, the *Corpus Scriptorum Historiae Byzantiae*, the *Monumenta Historica Germaniae*, the *Acta Sanctorum*, the *Corpus Reformatorum*, complete files of the publications of the League of Nations, the International Labor Office, and many others. The endeavor to select the more important items in the various fields of graduate work has been supplemented by the purchase of a number of special collections and libraries. Among the more important of these might be mentioned a Peruvian library of approximately three thousand books and manuscripts; a library of several thousand volumes dealing with Brazil; the Lanson Collection of French literature consisting of twelve thousand books and monographs; a Goethe collection of one thousand volumes; a Scandinavian collection of three thousand volumes; a collection of about five thousand items of early Americana, dating from the seventeenth century to 1820; the Holl church history library dealing primarily with the period of the Reformation; a collection of many thousands of church minutes and records of American denominational history; two collections of eighteenth-century English poetry and prose totaling about five thousand items; two special collections, one dealing primarily with Byron and the other with Coleridge, containing a number of manuscripts, annotated copies, and first



editions; a transportation collection containing many thousand railroad reports and records; and the Thomas Collection of books on Chinese history and culture. Special mention should be made of the George Washington Flowers Collection of manuscripts, books, newspapers, and pamphlets dealing with all phases of Southern history.

#### PUBLIC DOCUMENTS

The importance of public documents as fundamental source materials for the social sciences and as containing also some of the most important work in the field of applied science is being clearly recognized, and an excellent start has been made toward a comprehensive collection of this material. The Library has been a depository for Federal documents since 1890. State documentary publications are also being systematically collected. Of European public documents a representative, though not extensive, collection has been secured. Among the more notable items might be mentioned the *British Calendar of State Papers*, the *Acts of the Privy Council*, *Hansard's Debates*, the *Débats Parlementaires* of the French Senate and Chamber of Deputies, the *Journal Officiel de la République Française*, the *Bulletin des Lois de la République Française*, the *Verhandlungen des Reichstages*, and the *Diario* of the Spanish Cortes. The public documents of the Latin-American countries form one of the strongest units of the Library.

Under this heading should be mentioned also the recent acquisition of the library of Professor Louis Strisower, sometime president of the Institut de Droit International, which contains approximately five thousand volumes dealing with international law. The volumes date from the seventeenth century to the present and contain some especially valuable periodical files and rare books.

#### PUBLICATIONS OF EUROPEAN ACADEMIES

The Duke University Library has more than twenty-five sets of European academies containing monographs in most of the fields of knowledge and constituting important sources for the research programs of graduate students and Faculty. The sets comprise about two thousand volumes and include *Preussische Akademie der Wissenschaften* (Berlin); *Gesellschaft der Wissenschaften zu Göttingen*; *Sächsische Akademie der Wissenschaften* (Leipzig); *Bayerische Akademie der Wissenschaften* (Munich); *Akademie der Wissenschaften* (Vienna); *Académie des sciences* (Paris); *Académie des inscriptions et belles-lettres* (Paris); *Institut de France* (Paris); *Académie des sciences morales et politiques* (Paris); *Accademia gioenia di scienze naturali* (Catania); *Accademia virgiliana de scienze, lettere ed arti* di Mantova; *Accademia de scienze morali e politiche* (Naples); *Accademia dei lincei* (Rome); *Accademia nazionale dei lincei*; *Accademia d'Italia* (Rome); *Accademia pontificia dei nuovi lincei* (Rome); *Accademia de ciencias y artes* (Barcelona); *Accademia de ciencias, bellas letras y nobles artes de Córdoba*; *Real academia española*; *Accademia de la historia* (Madrid); *Accademia das sciencias de Lisboa*; *Akademia nauk* (Leningrad); *Akademia nauk* (Mos-

cow); *Norske videnskaps-akademi i Oslo*; *Akademie van Wetenschappen* (Amsterdam); *Académie royale des sciences, des lettres et des beaux-arts de Belgique* (Brussels); *Akademija umiejetnosci* (Krakow).

#### NEWSPAPERS

The Library collection of newspapers contains around eleven thousand volumes. Practically all states of the Union are represented, although the major part of the collection is from along the Atlantic seaboard. Of the eighteenth-century items, the states best represented are Massachusetts, Maryland, New York, Rhode Island, Virginia, North Carolina, South Carolina, and Georgia. There is an excellent collection of nineteenth-century New England papers. There are especially long runs of the *New York Herald*, *New York Times*, *New York Tribune*, and the *London Times*. The World War period is unusually strong with about twenty-eight titles practically complete for 1914-19. There is a group of papers from Germany in the years just after the World War. Special emphasis has been placed on the Southern states, and there are numerous volumes of papers from North Carolina, South Carolina, and Virginia, representing the Colonial period, the Ante-Bellum period, and the Civil War period. The current subscription list of more than fifty titles represents American public opinion and contains about twenty important foreign titles.

#### MANUSCRIPTS

The manuscript collection now contains approximately half a million pieces. Outstanding items include one notable Greek manuscript of the thirteenth century containing the entire New Testament. In the field of English literature there is an interesting body of Rossetti material. For the most part, however, the collection relates to the South Atlantic region. The field of American literature is represented by the papers of Paul Hamilton Hayne, Thomas Holley Chivers, William Gilmore Simms, John Esten Cooke, George Frederick Holmes, and Thomas Nelson Page. Material is most copious in the field of history, where the papers of both well-known and minor figures provide a well-rounded picture of life in the South during the nineteenth century. Aside from politics, information can be found on all phases of social and economic life. Particular attention is given to the period of the Civil War, with the result that the collection is rich in material on civic and social as well as military phases of that conflict. Of interest for historical studies are the papers of P. G. T. Beauregard, John C. Calhoun, John J. Crittenden, John Clopton, William H. Crawford, Jefferson Davis, James Mercer Garnett, Nathaniel Greene, Louis M. Goldsborough, David B. Harris, William W. Holden, T. J. (Stonewall) Jackson, John M. Kell, Robert E. Lee, Francis R. Lassiter, George McDuffie, A. T. Mahan, Willie P. Mangum, Mathew Fontaine Maury, Francis W. Pickens, Richard Singleton, and Alexander H. Stephens. The manuscript collection is increasing at the rate of about fifty thousand items annually.

EXCHANGE PRIVILEGES WITH THE LIBRARY OF THE UNIVERSITY  
OF NORTH CAROLINA

The libraries of Duke University and of the University of North Carolina have completed arrangements for the fullest exchange of privileges and resources. Each library contains a catalogue of the contents of the other, and books requested from the other library are supplied through a delivery service which operates daily except Saturdays and Sundays. Faculty members and graduate students may secure cards admitting them to the stacks of the other library. The Library of the University of North Carolina contains approximately 344,000 volumes, besides a large collection of manuscripts relating to Southern history. Through this arrangement more than 831,000 volumes are available to students in the combined libraries.

**NEW SCIENCE LABORATORIES**

New laboratory buildings were erected in 1930 on the West Campus for biology, physics, and chemistry. Graduate students will find available the most modern equipment and facilities for research. In addition to the provision of modern apparatus, large sums have recently been expended to purchase important additions to the collections of scientific periodicals and publications in the departmental libraries, the University Library, and the Hospital Library.

In the School of Medicine elaborate facilities are provided for post-graduate research in the various branches of medical science. Especial attention will be given to training in preventive medicine and public health work.

**BIOLOGICAL LABORATORIES**

The Biology Building on the West Campus contains three refrigerated rooms, an incineration room, a workshop, an aquarium room, five animal rooms connected with outside yards, and eight dark rooms. Special laboratories are provided for advanced work in plant and animal physiology, parasitology, cytology, taxonomy, bacteriology, ecology, histology, mycology, anatomy, embryology, endocrinology, entomology, and forestry. A greenhouse gives adequate space for experimental work and propagation. There is an herbarium of some fifty thousand specimens of all plant groups with a large representation of the Southern flora. Dr. H. J. Oosting is Curator of the Herbarium and Dr. Irving E. Gray is the Curator of the Biological Museum. On the East Campus, laboratories are provided for women, and there is a small greenhouse near the Science Building. Laboratories and rooms for students doing research are equipped with vacuum, compressed air, direct and alternating current, gas, and running water. Proper equipment and supplies for biological work, such as microscopes, ovens, baths, nets, kymographs, motors, chemicals, and glassware are available.

The Duke University Forest and the streams of the University estate furnish excellent collecting grounds. The woodlands are under the management of the School of Forestry. Duke University is situated in the

Piedmont region, between the mountains and the coastal plains. This gives easy access to a variety of plants and animals. North Carolina is the home of the tulip poplar, holly, rhododendron, mountain laurel, flowering dogwood, several species of insect-catching plants, cypress, and other interesting plants. Among the animals are a varied assortment which range from marine to montaine species. In the woods about the University are opossums, squirrels, cardinals, Carolina wrens, several species of salamanders, king snakes, and terrapins.

The Marine Laboratory at Beaufort, N. C., provides facilities for work on plants and animals in and near the ocean. It is situated on Piver's Island, adjacent to the Biological Laboratory of the United States Bureau of Fisheries.

### CHEMISTRY LABORATORIES

Graduate work in chemistry is carried on in a new building which has a floor area of about 57,000 square feet. The equipment of this building is modern in every respect. Of this total space a large proportion is available for research and advanced teaching. There are twenty-five double research rooms completely equipped with the usual services. In addition, the following specially designed rooms are available for present or future research as indicated: a low temperature room, photographic room, constant temperature room, gas analysis room, combustion room, bomb room, animal room, and rooms equipped for high vacuum, X-ray, and photochemical investigations.

A glass-blowing room and a well-equipped shop, operated by a competent mechanic, provide facilities for the construction of special apparatus and for the repair and maintenance of instruments.

### PHYSICAL LABORATORIES

The physical laboratory contains approximately an acre of floor space which is devoted to instruction and research. In addition to the usual lecture and elementary laboratory facilities, laboratories are provided for work in electrical measurements, optics, atomic physics, and advanced measurements in general physics.

There are sixteen research rooms equipped with various storage battery connections as well as water, gas, and compressed air. In some rooms connections can be made to a 35 kw. 110 v. D.C. generator.

In addition, rooms are provided for various instruments of research in spectroscopy such as a 10-foot Rowland Concave grating, 21-foot grating in a Paschen mount as well as microphotometer and dark rooms. Facilities are also provided for investigation in the fields of magnetism, collision problems, mass spectroscopy, and nuclear physics.

A well-equipped shop operated by a trained instrument-maker makes possible the development of instructional and research apparatus. A shop is also provided for the use of the Staff and graduate students.



### THE DUKE FOREST

Through placing the Duke Forest under intensive management for forestry purposes, substantial progress has been made in developing the educational work and research in forestry. The Duke Forest consists of approximately forty-nine hundred acres of land, most of which is adjacent and easily accessible to the University campus. Situated in the lower Piedmont region, composed of second-growth shortleaf pine, loblolly pine, and hardwoods, the Forest is representative of the various types of timber growth and soils found throughout the region.

On account of the proximity of the Forest to the laboratories, greenhouses, and library facilities of the University, an excellent opportunity exists for advanced study and research in forestry. Research, particularly in the fields of silvics, forest soils, silviculture, forest management, properties of wood, forest-tree physiology, and forest pathology, is well under way. Several members of the Botany and Zoology Staffs are also engaged on research in the Duke Forest.

For additional information, see the *Bulletin of the School of Forestry*.

### GRADUATE DORMITORIES

Certain sections of the new dormitories on the West Campus have been reserved for graduate men. Board can be secured at the Union, which also has unusually attractive provisions for social intercourse and activities. Graduate women will find dormitory accommodations of the highest type on the East Campus. The Union on the East Campus furnishes meals at reasonable rates and serves as a center of campus life.

### FELLOWSHIPS AND SCHOLARSHIPS

For the assistance and encouragement of graduate students of high character and marked ability, the University has established a considerable number of fellowships and scholarships. Holders of fellowships and scholarships will be expected to pay the tuition fee and such additional fees as are regularly required. Applications for these appointments should be made on or before March 1 of each year, beginning in 1939. In case vacancies occur, applications submitted on a later date will be considered. Appointments which were offered for the year 1938-39 are listed below.

#### FELLOWSHIPS

One Angier Duke Memorial Fellowship of one thousand dollars.

Four University Fellowships of seven hundred and fifty dollars each.

Ten University Fellowships of seven hundred dollars each.

Sixteen University Fellowships of six hundred and fifty dollars each.

One Gurney Harriss Kearns Fellowship in American Religious Thought of seven hundred dollars.

In appointing fellows, preference is usually given to applicants who have completed at least one year of successful graduate work. Fellows will be required to give a limited amount of assistance in reading papers,

in laboratories, or in other departmental duties. All fellows carry a full program of graduate work.

#### **GRADUATE SCHOLARSHIPS**

Seven Graduate Scholarships of four hundred and fifty dollars each.  
Twelve Graduate Scholarships of four hundred dollars each.

Scholars may be asked to give a limited amount of assistance in departmental work. They normally carry a full program of graduate studies.

#### **FELLOWSHIPS AND GRADUATE SCHOLARSHIPS IN FORESTRY**

Information regarding special fellowships and graduate scholarships in forestry may be obtained before March 1, 1939, from the Dean of the School of Forestry, Duke University, Durham, N. C.

#### **BROOKINGS-DUKE CO-OPERATIVE FELLOWSHIPS**

Duke University and the Brookings Institution of Washington, D. C., have entered into a co-operative arrangement for the establishment of fellowships in economics and political science. Each fellowship will be of the approximate annual value of one thousand dollars. The fellowships will be available to third-year or more advanced graduate students, who have either completed the work for the Ph.D. degree, or who wish to do thesis work in Washington. In carrying on their work, students will use the facilities of the Brookings Institution. In most cases unmarried persons will be nominated for these appointments. Further details can be obtained from the Dean of the Graduate School, Duke University, or from the Brookings Institution, Washington, D. C. Graduate students who desire to be nominated by Duke should apply to the departments concerned not later than March 1. Nominations are transmitted to the Brookings Institution by March 15.

#### **APPOINTMENTS AS GRADUATE ASSISTANTS**

A considerable number of appointments as teaching assistants or readers will be available for graduate students. The compensation will usually range from \$300 to \$700, depending upon the nature and amount of the work assigned. Assistants receiving \$500 or more will be registered for four-fifths of a normal program of studies.

Information regarding fellowships, graduate scholarships, and graduate assistantships, together with application blanks, may be obtained from the Dean of the Graduate School, Duke University, Durham, North Carolina.

#### **ENCOURAGEMENT OF RESEARCH**

The President of the University appoints annually a University Council on Research. The twelve members of this Council are chosen from the Faculties of the Schools of Medicine, Law, Religion, and the Graduate School of Arts and Sciences. In May of each year the Council on Research receives written applications from members of the Faculty for



subsidies to be used in the following fiscal year to aid them in carrying out research projects. Stipends are granted for the employment of research assistants, for the purchase of books and for apparatus, supplies, and equipment. Each member of the Faculty to whom a research stipend is granted must make a written report within twelve months to the Council concerning the progress of the investigation for which the stipend was allowed.

### SPECIAL LECTURES

During each academic year the University Lecture Committee arranges for a number of special lectures of value to graduate students interested in various fields of knowledge. Among the lecturers for the academic year 1937-38 were Professor J. B. Rhine on "Extra-Sensory Perception"; Judge Manley O. Hudson, of the Permanent Court of International Justice, on the "World Court"; Professor William L. Langer, of Harvard University, on "Balance of Power in Europe"; and Dr. Robert Cushman Murphy, of the American Museum of Natural History. Other distinguished lecturers appeared in 1937-38 on the Woman's College Lecture Series and on the programs of various schools and departments of the University.

### UNIVERSITY PRESS

As far back as 1897 Trinity College began sponsoring the publication of the *Papers of the Trinity College Historical Society*, which were distributed to members of the Society and on exchange with other institutions. This was the first publishing venture of the College.

In 1902, the 9019, an honor scholastic society on the campus, sponsored the launching of *The South Atlantic Quarterly*, which was later taken over by the Press.

In 1925 after the acceptance of the indenture of trust of James B. Duke, Trinity College became Duke University, and the following year the University Press was organized to publish the results of research engaged in by the Faculty and such other works as were approved by a board of editors appointed for the purpose. One of the first steps of the new organization was to revive *The Hispanic American Historical Review*, which had been founded and published from 1918 to 1922 by a group of scholars interested in Hispanic America. Since 1926 its publication has been continued without interruption and its mission has been supplemented by the publication of many studies dealing with the history, politics, and foreign relations of the Hispanic nations of the New World.

In 1929 *American Literature* was begun with the co-operation of the American Literature Group of the Modern Language Association. This was followed in 1931 by *Ecological Monographs*, a quarterly sponsored by the Ecological Society of America to take care of papers too long for inclusion in *Ecology*.

*Character and Personality* was organized in 1932 to offer a medium for the publication of studies in fields related to this phase of psychology. It is an international quarterly which appears simultaneously in the United

States and Great Britain. A German edition formerly published in Germany has been forced to suspend publication.

Besides these regular quarterly publications the Press has issued *Duke University Psychological Monographs*, the title of which has recently (1936) been changed to *Contributions to Psychological Theory*, and *Duke University Research Studies in Education* sponsored by the Department of Education of the University.

More recently (1935) the Press started the publication of the *Duke Mathematical Journal*, with the co-operation of the Mathematical Association of America, and *The Journal of Parapsychology* (1937) for the publication of the results of research in psychoanalysis, mental telepathy, and allied studies. For the Southern Association of Colleges and Secondary Schools, the Press publishes *The Southern Association Quarterly*, official organ of the Association. The Law School issues another quarterly, *Law and Contemporary Problems*, carrying a symposium of some important legal problem in each number.

Previous to the existence of the Press, Duke University, formerly Trinity College, had published several important books under its own imprint. Since the organization of the Press it has continued to offer to the public the products of able scholarly research. It has not limited its scope to any one field or to any one group of authors. In addition to the many works submitted by members of the Faculty, a great number of manuscripts by authors who had no connection with the University have been issued under the imprint of the Press.

In the broadest sense, it is the policy of the Press to give to the public any work which, because of the merit of its contents, its style, and its general value, deserves publication.

# REQUIREMENTS FOR ADMISSION AND DEGREES

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## ADMISSION TO GRADUATE COURSES

Students who have received a Bachelor's degree for a four-year undergraduate course from a college of sufficiently high standing may be admitted to take courses in the Graduate School of Arts and Sciences of Duke University. The department concerned will determine whether a student is prepared to take any particular course. *Admission to graduate courses does not necessarily imply admission to candidacy for a degree.*

A candidate for admission as a graduate student should present an official transcript of his undergraduate record certifying that he has received a Bachelor's degree from a college or university which is a member of the Association of Colleges and Secondary Schools of the Southern States or of one of the similar associations in other sections of the country (provided that the degree must have been conferred after the admission of the college or university to membership in said association); or from a North Carolina college whose Bachelor of Arts or other Bachelor's degree is accepted by the State Department of Education as the basis for issuing the high-school or primary certificate of Class A. A degree from an institution outside of the State of North Carolina, not provided for above, may be accepted when the investigation in the individual case shows that qualifications are satisfactory.

No college or university work taken before the Bachelor's degree is conferred, or fully earned, may be credited toward an advanced degree except under the following circumstances: A student of Duke University who lacks at the beginning of a term not more than nine semester-hours of fulfilling the requirements for the Bachelor's degree may obtain permission from the Dean of the Graduate School to take during the term graduate courses sufficient to bring his total work to fifteen hours a week. Such graduate courses will be credited toward the degree of Master of Arts or Master of Education.

No graduate student may register in one academic year for more than twenty-four semester-hours of work and a thesis.

## ADVANCED DEGREES

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), and Doctor of Philosophy (Ph.D.). Most departments of the University are now prepared to give a full program of work leading to the degree of Doctor of Philosophy. New appointments are constantly being made to the Faculty of professors who give their attention primarily to graduate courses and the direction of research.

## ADMISSION TO CANDIDACY FOR A DEGREE

A graduate student who desires to be accepted as a candidate for a degree should file with the Dean of the Graduate School an official transcript of the record of his undergraduate work and also of any graduate courses he may have completed. He should also confer with the head or chairman of the department in which he desires to take his major work. Applications for admission to candidacy for the degree of Master of Arts or Master of Education should be made at the beginning of the first year of graduate work, and for the degree of Doctor of Philosophy early in the second year of graduate work. Before receiving recognition as a candidate for a degree, the student must satisfy both the general requirements of the Graduate School and the special requirements of the department in which he is taking his major work.

### THE DEGREE OF MASTER OF ARTS

*Language requirements:* Candidates for the degree of Master of Arts are required to have a reading knowledge of two foreign languages, evidenced by examination or by credit obtained for at least six semester-hours of college work in each. If this requirement has not been satisfied before admission to candidacy for the degree, the required foreign language work must be completed before the degree is conferred and will not be counted for credit toward the degree. The two foreign languages offered must be acceptable to the department in which the candidate is taking his major work. Twice a year at stated times the language examinations will occur. The French examinations will be given the first week in November and the first week in March, while the German examinations will be given the second week in November and the second week in March. Students should register in advance at the Graduate Office for these examinations.

*Major and minor subjects:* Before selecting his major in a department, a student must have completed a minimum of twelve semester-hours of approved *preliminary* courses in that department and twelve additional semester-hours either in that department or in related work. Many departments require eighteen semester-hours of undergraduate credit. The student therefore should read carefully the special requirements listed by each department.

To obtain the degree of Master of Arts a candidate must complete satisfactorily twenty-four semester-hours of graduate courses and a thesis. The credit for the thesis is six semester-hours. Each candidate for the degree must select a major subject in which the minimum requirement is twelve semester-hours and the thesis. A candidate must take six semester-hours of graduate work in a minor outside of but approved by the major department, and the remaining six semester-hours in the major or minor fields or in a department approved by the major department and by the Graduate Council. No undergraduate course may be credited toward the degree of Master of Arts.

### MINIMUM RESIDENCE REQUIREMENT

The minimum residence requirement of candidates for the Master's degree is one academic year. Often a longer period of residence will prove necessary. In the case of graduate students who take all the work for the Master's degree in the Summer School, the minimum residence requirement is thirty-three weeks. All the work offered for the Master's degree, whether in the regular academic year or in summer sessions, must be completed within a period of six years from the date of beginning.

### DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is granted to teachers, or others, engaged in educational service, upon completion of the prescribed program of study. Candidates for the degree must have had two years of practical experience in teaching when the degree is conferred. This experience may be obtained in the two years immediately prior to entering upon candidacy for the degree, or it may be obtained concurrently with the period of study for the degree.

A preliminary requirement for admission to candidacy for this degree is the completion of a minimum of eighteen semester-hours of approved undergraduate work in education, including work in educational psychology and work in history of education, or educational sociology, or school administration.

The requirements for the degree of Master of Education are twenty-four semester-hours of graduate courses and a thesis. Candidates must take a minimum of twelve semester-hours of work and write a thesis in the Department of Education. At least six semester-hours must be taken in some department other than the Department of Education. Students who are preparing to teach are advised strongly to take twelve semester-hours of graduate work in the subjects they intend to teach. In such cases the thesis may be prepared under the joint supervision of a department in which the student intends to teach and the Department of Education.



The residence requirements for the degree of Master of Education are the same as those for the degree of Master of Arts.

#### **THESIS FOR THE MASTER'S DEGREE**

The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts or Master of Education must be approved by the department or departments concerned and filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred.

Three (or, at the discretion of the department, four) bound typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 15 of the year in which the degree is conferred. The thesis is passed upon and accepted or rejected by an examining committee of three members of the Faculty. Two of the copies, the original and a carbon copy, are placed in the University Library. Each candidate is required to appear before the committee for a final examination. The oral portion of the examination will be approximately one and one-half hours in length and will be on the thesis and its related field.

#### **SUMMER SCHOOL WORK FOR THE MASTER'S DEGREE**

Graduate students may not receive more than six semester-hours of credit for work taken in one summer session of six weeks. All the work offered for the Master's degree, either in the regular academic year or in summer sessions, must be completed within a period of six years from the date of beginning. Work completed earlier will count neither for course credit nor residence credit. Candidates who present for the Master's degree more than fifteen semester-hours taken in summer sessions will be obliged to meet the additional Summer School requirements for the degree.

#### **CREDIT TOWARD THE MASTER'S DEGREE FOR WORK DONE ELSEWHERE**

No credit toward advanced degrees is given for university extension or correspondence courses.

Not more than six semester-hours of credit toward the Master's degree may be given to graduates of Duke University or of other approved colleges or universities for acceptable graduate courses or research work completed elsewhere. Such credit shall not shorten the minimum period of full-time residence work required at Duke University. It may, however, be used to give opportunity to take six semester-hours of a required language course or to take as much as six semester-hours of required undergraduate training.

#### **THE DEGREE OF DOCTOR OF PHILOSOPHY**

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult, or enter into correspondence with, the Dean of the Graduate School or the head of the department concerned. He will then be advised as to the possibility of securing the necessary instructions and supervision of research in the desired field.

The Graduate School Council has adopted the following regulations governing the conferring of the degree of Doctor of Philosophy:

1. The Degree. The degree of Doctor of Philosophy is a research degree; it is not based merely upon the completion of a prescribed period of study or upon the obtaining of credit for a given number of courses. The granting of the degree will be based primarily upon evidence of high attainments in a special field of knowledge and upon the production of a thesis embodying the results of original research.

2. Residence Requirements. The normal period of resident graduate study, after the general requirements for admission to the Graduate School have been

satisfied, is not less than three academic years. The candidate will be required to spend at least either the last year in actual residence at Duke University, or the first two years. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may expect to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake. Credit for one year of work done in summer school sessions may be given with the approval of the Graduate Council and the department in which the student takes his major work. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

3. Application for Candidacy for the Ph.D. Degree. A student desiring to become a candidate for the Ph.D. degree is ordinarily required to file with the Dean of the Graduate School, not later than the beginning of the second year of graduate work, a formal application indicating in what department and under what professor he proposes to carry on research. A committee will then be appointed to supervise the student's work, with the professor in charge of his research as chairman. If and when the committee finds that the preliminary requirements of the major department have been satisfied, the chairman of the committee shall report the fact in writing to the Dean of the Graduate School. The student's program of study will be arranged after consultation with this committee and must secure its approval and that of the Graduate Council. In the case of students who come to Duke University for only the last year of graduate work, and in special cases approved by the Graduate Council, the application for recognition as a candidate for the Ph.D. degree may be filed later than provided above, but not later than October 15 of the academic year in which it is desired that the degree be conferred.

4. Preliminary Examination. Toward the end of the second full year of graduate work (or in special cases early in the third year), a preliminary examination of each candidate will ordinarily be held covering the general field of his studies. This examination will be conducted by the committee in charge of the student's work and will be either oral or written, or both as the committee may determine. A student who passes this examination will be recognized as a candidate for the Ph.D. degree. The examination on his minor subject or subjects will ordinarily be held at the time of his preliminary examination.

5. Program of Study. The program of study of an applicant for the Ph.D. degree is subject to the approval of the Graduate Council and of the committee provided for in Section 3 above. The student must select a major field and one or two minor related fields. When a department offers instruction in a sufficient variety of subjects and the needs of the individual student seems to require it, the Graduate Council may permit a major and minor to be taken in the same departments.

6. Foreign Language Requirements. A reading knowledge of French and German will be required. The student will be examined on one of the foreign languages at the beginning of his second year of graduate work, and should qualify in both by the end of the second year of his graduate work. No person can come up for his preliminary examination without having satisfied the language requirements for the Doctor's degree. The department in which he takes his major work may indicate preference as to the language in which the student shall first be examined. Foreign language examinations will be conducted by the appropriate language department in conjunction with the department in which the student has his major field of work.<sup>1</sup>

7. Thesis. The thesis for the Ph.D. degree must be a contribution to knowledge. The subject of the thesis must be filed with the Dean of the Graduate School on or before October 15 of the academic year in which the candidate desires to take the final examinations for his degree. The subject

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<sup>1</sup> See University Calendar, p. 7.



must receive the written approval of the head or chairman of the department in which the candidate has his major field of work and also of the professor under whom the thesis is being written. The thesis must be completed to the satisfaction of the professor under whom it is written, and four type-written copies in approved form must be deposited with the Dean of the Graduate School on or before May 1, if the student desires to be examined on the thesis in the same academic year. Two of the copies, the original and a carbon copy, are placed in the University Library.

The title-page must be approved by the major department and by the Dean of the Graduate School.

The candidate's thesis must be published either in its original form or a modified form approved by the Dean of the Graduate School and the committee in charge of the candidate's work. Copies of the published thesis should be deposited in the Graduate School office as provided by regulations of the Graduate Council. The degree will not be conferred until publication of the thesis, in approved form, within three years, has been guaranteed in a way satisfactory to the Dean of the Graduate School and the professor under whom the thesis was written.

8. Final Examination. The final examination on the thesis and on the related subject-matter in the major or the minor fields will be oral.

### THE TRAINING OF COLLEGE TEACHERS

Colleges and preparatory schools are constantly calling upon the university graduate schools for efficient teachers. The Duke University Graduate School will endeavor to discover among the candidates for advanced degrees in the various departments those students who show promise of becoming good teachers. Provision will be made for the consideration and discussion of problems of teaching. Graduate students who expect to teach will be given opportunity to gain practical experience under the supervision of successful teachers. The Graduate School will keep such records as will enable it to recommend with confidence students who are likely to prove efficient as teachers. An appointment bureau is maintained by the University, the services of which are extended to all graduate students.

### THE GRADING OF GRADUATE STUDENTS

Members of the Faculty are expected to report the grades of graduate students not later than February 15 for the first semester and not later than June 15 for the second semester on the cards provided for that purpose.

In the grading of graduate students, "S" or satisfactory shall represent work of an acceptable character, "G" or good shall be the next higher grade, and "E" or exceptional shall be the highest grade. "F" or failing indicates that the grade of the student is below passing. In a course in which both graduates and undergraduates are enrolled, the grade "S" shall represent approximately an 80 per cent rating. A mark of "Incomplete" may be given when a student has failed, for an acceptable reason, to complete some portion of the required work in a course in which his standing is generally satisfactory. Unless a report is made within one year that the course has been satisfactorily completed, all credit will be lost.

**GENERAL REGULATIONS**

Not more than twenty-five students are permitted in a class giving graduate credit, nor are undergraduate students below the Senior year permitted in such a class. Exceptions to these rules may be made by special permission of the Graduate Council on recommendation of the department concerned.

In courses exclusively for graduates, students may be given extra credit in semester-hours for extra work done, with the approval of the Graduate Council on recommendation of the department.

## COURSES OF INSTRUCTION

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*Unless otherwise stated, all courses listed in this catalog will be given on the West Campus. For those courses offered on the East Campus (E) will be inserted following the description. In general, courses with odd numbers are offered in the first semester, those with even numbers in the second semester. Some seminars bearing a single number continue throughout the year; in such cases it is indicated whether the semester-hours of credit apply to the year or to each semester.*

### DIVISION OF ANCIENT LANGUAGES AND LITERATURES

PROFESSOR BRANSCOMB,\* CHAIRMAN; PROFESSORS PEPPLER, ROGERS, AND  
ROSBOROUGH; ASSISTANT PROFESSORS CLARK, GATES,  
STINESPRING, AND WAY

#### GREEK

FOR SENIORS AND GRADUATES

201-202. Greek Tragedy.—6 s.h.

PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY

203-204. Homer.—*Odyssey*. Pindar and Bacchylides. 6 s.h.

PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY

205-206. Greek Historians.—6 s.h.

PROFESSOR PEPPLER

207-208. Greek Orators.—6 s.h.

ASSISTANT PROFESSOR WAY

209-210. Plato.—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h.

ASSISTANT PROFESSOR WAY

211-212. Aristophanes.—6 s.h.

PROFESSOR PEPPLER

(Only one of the six courses listed above is offered each year.)

243. Athenian Topography.—The topography and monuments of ancient Athens. 3 s.h.

ASSISTANT PROFESSOR WAY

244. Greek Epigraphy.—Lectures on the history of the alphabet and the development of the local Greek alphabets, followed by extensive reading of inscriptional texts in facsimile. 3 s.h.

ASSISTANT PROFESSOR WAY

245. Greek Dialects.—A linguistic study of transliterated inscriptions illustrative of the major Greek dialects. The interrelations of the dialectal forms are examined, with reference, where possible, to their origin in pre-ethnic Greek. 3 s.h.

ASSISTANT PROFESSOR WAY

246. Greek Historical Inscriptions.—The more valuable historical inscriptions are read in chronological order and interpreted in their general bearing upon the course of Greek history. 3 s.h.

ASSISTANT PROFESSOR WAY

247-248. Greek Archaeology.—Advanced course in the general field for Seniors and graduates, comprising architecture, sculpture, vases, and the minor arts. 3 s.h.

ASSISTANT PROFESSOR WAY

(Of the courses numbered from 243 to 248, only two semester-courses are offered each year.)

**Topography of Athens, Olympia, and Delphi.**

PROFESSOR HARLAND (U. N. C.)

**The Aegean Civilization.**

PROFESSOR HARLAND (U. N. C.)

\* Absent on leave, 1937-38.

## FOR GRADUATES

The more advanced work of the graduate department is done in the seminar. One author or group of authors forms the center of study each year. Seminars are offered in Aristophanes (course 301-302), the Greek Historians (303-304), the Attic Orators (305-306), and the Greek Tragic Poets (307-308). These run through a cycle of four years. In 1938-39 the work will be:

307-308. Seminar in the Greek Tragic Poets.—6 s.h. PROFESSOR PEPPLER

## RELATED COURSES IN OTHER DEPARTMENTS

Phil. 217. Philosophy of Aristotle.—3 s.h. DR. McLARTY

N.T. 218. Galatians and I Corinthians.—3 s.h.  
PROFESSOR BRANSCOMB OR ASSISTANT PROFESSOR CLARK

N.T. 315. Hellenistic Religions at the Beginning of the Christian Era.—  
3 s.h. ASSISTANT PROFESSOR CLARK

N.T. 318. The Text of the New Testament.—3 s.h.  
ASSISTANT PROFESSOR CLARK

By a co-operative arrangement graduate students of Duke University may take the following courses at the University of North Carolina, in addition to those marked (U. N. C.) above, with the approval of the Dean of the Graduate School and the Head of the Greek Department at Duke:

Homer: Advanced Course. PROFESSOR HARLAND OR PROFESSOR BERNARD

Greek Drama: Advanced Course.  
PROFESSOR BERNARD OR PROFESSOR SANDERS

The Greek New Testament. PROFESSOR BERNARD

Greek History: Thucydides. PROFESSOR HARLAND

Syntax of the Greek Language from Homer to the New Testament.  
PROFESSOR BERNARD

Hellenic Literature and Its Historical Setting. PROFESSOR HARLAND

Greek Seminar. PROFESSORS BERNARD, HARLAND, AND SANDERS

Archaeology of the Ancient Near East. PROFESSOR HARLAND

Hellenic Architecture. PROFESSOR HARLAND

Hellenic Sculpture. PROFESSOR HARLAND

Greek Epigraphy. PROFESSOR HARLAND

*Graduate students of Duke University may attend the American School of Classical Studies in Athens, Greece, without charge for tuition, and they are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.*

## LATIN AND ROMAN STUDIES

All candidates for the Master of Arts degree are required to complete one Latin seminar of six semester-hours, and candidates for the doctorate are required to complete not less than two Latin seminars—twelve semester-hours—for a Latin major. At present Greek, French, Philosophy, English, and History are the most suitable subjects for the minor for students who desire a non-

Latin minor. A satisfactory working knowledge of both German and French is a necessity for graduate students in Classics, and Italian is desirable.

FOR SENIORS AND GRADUATES

**201. Roman Fiction.**

[Not offered in 1938-39]

**202. Latin Christian Writers.**

[Not offered in 1938-39]

**203-204. Roman Epic Poetry.**

[Not offered in 1938-39]

**205-206. Roman Drama.**—Select Comedies of Plautus and Terence; select Tragedies of Seneca. A rapid reading course with reports, lectures, and term papers. 6 s.h. (E) ASSISTANT PROFESSOR GATES

**207-208. Roman Philosophy.**—Extensive reading in the philosophical writings of Cicero, Lucretius, and Seneca. 6 s.h. (E or W) PROFESSOR ROSBOROUGH

**209-210. Vulgar Latin: Introduction to Romance Philology.**

[Not offered in 1938-39]

**215. Introduction to Roman Art and Archaeology.**—See course 216.

[Not offered in 1938-39]

**216. Topography and Monuments of Ancient Rome.**—Lectures and reports treating of the site, development and expansion of the city; city plan, public and private buildings, public works, materials and methods of construction. *May be offered the first semester in 1938-39.* 3 s.h. PROFESSOR ROSBOROUGH

**251-252. Roman Life.**

[Not offered in 1938-39]

**281-282. Roman Historical Literature.**—A comprehensive reading course. 6 s.h. PROFESSORS ROSBOROUGH AND ROGERS

FOR GRADUATES

**311-312. Latin Epigraphy.**—An Introduction to Latin Epigraphy, *first semester*; followed by a study of important historical inscriptions, including the *Monumentum Ancyranum*, *second semester*. 6 s.h.

PROFESSOR ROSBOROUGH

Latin Palaeography.

PROFESSOR HARRER (U. N. C.)

**375-376. Greek and Latin Linguistics.**

[Not offered in 1938-39]

**Seminars:** Various authors are selected from year to year as a basis for training in criticism and research. Seminars are offered in the following: *Plautus* (321-322), *Catullus* (301-302), *Roman Historians* (331-332), *Cicero* (391-392), *Martial* (351-352), *Horace* (361-362), and *Roman Provincial Administration* (341-342). The seminar planned for 1938-39 is:

**341-342. Roman Provincial Administration.**—6 s.h.

PROFESSOR ROGERS

The following courses given at the University of North Carolina are open to graduate students of Duke University under a co-operative arrangement, with the approval of the Dean of the Graduate School and the Head of the Department of Latin and Roman Studies:

Prose Writings of the Republic.

PROFESSOR SANDERS

Roman Historical Literature.

PROFESSOR HARRER

Introduction to Comparative Philology.	PROFESSOR LANE
Roman Dramatic Literature.	PROFESSOR HARRER
Cicero: Political Career and Works.	PROFESSOR HARRER
Latin Epigraphy.	PROFESSOR HARRER
The Satires of Juvenal.	PROFESSOR SANDERS
Mediaeval Latin.	PROFESSOR JOHNSON
Latin Seminar.	PROFESSORS HARRER, JOHNSON, SANDERS

**SANSKRIT**

FOR SENIORS AND GRADUATES

Elementary Sanskrit	PROFESSOR LANE (U. N. C.)
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**SEMITICS**

FOR SENIORS AND GRADUATES

**O.T. 201-202. Elementary Hebrew.**—The principles and structure of the Hebrew language with translations of selected Old Testament narratives. 6 s.h. ASSISTANT PROFESSOR STINESPRING

**O.T. 307-308. Advanced Hebrew.**—Samuel or Kings the first semester; Isaiah the second. 6 s.h. ASSISTANT PROFESSOR STINESPRING

**O.T. 309. History of the Ancient Near East.**—A survey of the early civilizations of Egypt, Palestine, Syria and Mesopotamia in the light of Biblical archaeology. 3 s.h. ASSISTANT PROFESSOR STINESPRING

**N.T. 316. Judaism at the Beginning of the Christian Era.**—3 s.h. [Not offered in 1938-39] PROFESSOR BRANSCOMB

**Elementary Arabic.**—Introduction to the classical language and literature, with some attention to the modern colloquial idiom. No prerequisite, but one year of Hebrew recommended as preparation.

[Not offered in 1938-39] ASSISTANT PROFESSOR STINESPRING

**BOTANY**

PROFESSOR BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING; PROFESSOR WOLF, DIRECTOR OF GRADUATE STUDIES—315 BIOLOGY BUILDING; ASSOCIATE PROFESSOR HARRAR; ASSISTANT PROFESSORS ADDOMS, KRAMER, AND OOSTING; DRS. ANDERSON AND PERRY

FOR SENIORS AND GRADUATES

**202. Genetics.**—The principles of heredity, their cytological basis, and their bearing on other fields of biology. Laboratory work involves experimental breeding of the fruit fly and observations on the breeding of plants. Offered in alternate years. Prerequisites: one year of botany, zoology, or equivalent, and college algebra. 4 s.h. DR. PERRY

**203. Plant Cytology.**—A study of the structure and organization of plant cells in relation to growth, reproduction, and especially heredity. Prerequisite: two years of botany. 4 s.h. DR. ANDERSON

**204. Advanced Plant Anatomy.**—The structure of vegetative and reproductive organs of seed plants, including a consideration of seedling anatomy. Special reference is made to plants of economic importance. Offered in alternate years. Prerequisite: Botany 55 or equivalent. 4 s.h.

ASSISTANT PROFESSOR ADDOMS



**216. Botanical Microtechnique.**—Studies in methods of preparing temporary and permanent microscopical slides; theory of staining; the use of the microscope, especially microscopical measurements, drawing, and photomicrography, botanical photography, and lantern slides. Prerequisite: three semesters of botany. 4 s.h. DR. ANDERSON

**221. Structure and Classification of Fungi.**—Prerequisite: two years of botany. 4 s.h. PROFESSOR WOLF

**225-226. Special Problems.**—Students with adequate training may do special work in the following fields. Credits to be arranged.

(a) Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF

(b) Cytology. DR. ANDERSON

(c) Ecology. ASSISTANT PROFESSOR OOSTING

(d) Genetics. DR. PERRY

(e) Morphology and Anatomy of Higher Groups.  
ASSOCIATE PROFESSOR HARRAR, ASSISTANT  
PROFESSORS ADDOMS AND OOSTING

(f) Morphology and Taxonomy of Lower Groups.  
PROFESSOR BLOMQUIST AND DR. ANDERSON

(g) Physiology. ASSISTANT PROFESSOR KRAMER

(h) Plant Microchemistry. ASSISTANT PROFESSOR ADDOMS

(i) Taxonomy of Higher Groups. PROFESSOR BLOMQUIST

**252. Advanced Plant Physiology.**—The physico-chemical processes and conditions underlying the physiological processes of plants. Prerequisite: Botany 151 or equivalent; organic chemistry recommended. 4 s.h.

ASSISTANT PROFESSOR KRAMER

**255. Advanced Taxonomy.**—A study of the historical background of plant taxonomy, modern concepts and systems of classification, nomenclatorial problems and the taxonomy of specialized groups. Prerequisite: two years of botany, including Botany 52 or equivalent. 4 s.h. PROFESSOR BLOMQUIST

**256. Field Ecology.**—An ecological survey of local vegetation, including theory and practice in the use of instruments for precise habitat studies, and analysis of community and successional relationships. Prerequisites: Botany 1, 2, and 52, or equivalent. 4 s.h. ASSISTANT PROFESSOR OOSTING

#### FOR GRADUATES

**305. Plant Geography.**—The distribution and limits of vegetation types with special consideration of the plant communities of North America. Offered in alternate years. Prerequisite: Botany 156 or equivalent. 4 s.h.

ASSISTANT PROFESSOR OOSTING

**310. Structure and Classification of Bryophytes and Pteridophytes.**—The morphological and systematic characteristics of mosses, liverworts, ferns, and fern allies. Prerequisite: two years of botany. 4 s.h. PROFESSOR BLOMQUIST

**311. Structure and Classification of Algae.**—The morphological and ecological characteristics of the common freshwater and marine forms and the principles underlying their classification. Collecting, identification and the making of permanent microscopical preparations. Prerequisite: two years of botany. 4 s.h. PROFESSOR BLOMQUIST

**341. Methods in Plant Physiology.**—The theory and use of apparatus and methods in physiological research. 4 s.h. ASSISTANT PROFESSOR KRAMER

**342. Plant Microchemistry.**—The identification and estimation of the constituents of plant cells by the use of microchemical tests. Offered in alternate years. 2 s.h. ASSISTANT PROFESSOR ADDOMS

**359-360. Research in Botany.**—Individual investigation in the various fields of botany. Credits to be arranged. STAFF

**397-398. General Botanical Seminar.**—One hour per week throughout the year. Required of all graduates majoring in botany. 1 s.h. each semester. STAFF

### FOREST BOTANY

FOR SENIORS AND GRADUATES

**224. Forest Pathology.**—Special reference to diseases of forest trees. Offered in alternate years. Prerequisites: Botany 1, 2. 4 s.h. PROFESSOR WOLF

**253. Dendrology.**—The characteristics, identification, and taxonomy of trees and shrubs with special reference to species native to North Carolina and other important forest regions of the United States. Studies of special groups included. Prerequisite: two years of botany. 4 s.h. ASSOCIATE PROFESSOR HARRAR

### RELATED COURSES IN OTHER DEPARTMENTS

These related courses may be counted toward a major in Botany.

**Zoology 341. Historical and Philosophical Zoology.**—2 s.h. PROFESSOR HARGITT

**Forestry 257. Design of Forestry Experiments and Analysis of Data.**—5 s.h. PROFESSOR SCHUMACHER

### CHEMISTRY

PROFESSOR GROSS, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—219 CHEMISTRY BUILDING; PROFESSORS VOSBURGH AND WILSON; ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR; DRS. BROWN, HILL AND HOBBS

The graduate work in the Department is planned so as to provide a broad basic training in the fields of inorganic, organic, analytical and physical chemistry. The selection of the research problem for the M.A. or Ph.D. degree determines in which of the four fields further specialization takes place.

In the requirements for the Ph.D. degree the most emphasis is placed on the successful completion, under the direction of a member of the Staff, of a research program leading to the solution of an original problem.

FOR SENIORS AND GRADUATES

**215-216. Advanced Inorganic Chemistry.**—A study of modern theories of valence and molecular structure; also of inorganic compounds, particularly the less common types, and the colloidal state of matter, illustrated by suitable laboratory preparations. Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214 and ability to read German are desirable. 6 s.h. PROFESSOR VOSBURGH AND DR. HILL

**231. Instrumental Analysis.**—A study of the use of physical measuring instruments in chemical analysis. One lecture and six laboratory hours. Prerequisite: Chemistry 70. Laboratory physics is desirable. 3 s.h.

PROFESSOR VOSBURGH, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS  
[Not offered in 1938-39]

**232. Advanced Quantitative Analysis.**—A continuation of course 70, including quantitative organic analysis. One lecture and six laboratory hours. Prerequisites: Chemistry 70 and 151-152. 3 s.h.

PROFESSOR VOSBURGH, ASSOCIATE PROFESSOR BIGELOW,  
[Not offered in 1938-39] ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

**241. Physiological Chemistry.**—A study of the chemistry of human physiology. Clinical aspects of the subject are treated with reference to the need of prospective medical students. Two recitations and six laboratory hours. Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. 4 s.h.  
PROFESSOR WILSON

**242. Metabolism.**—Open to students who have completed course 241 or its equivalent, and who have a reading knowledge of German. Lectures and collateral reading deal with the probable fate of foodstuffs in the body, the nitrogen balance, energy requirement, nutritive ratios, vital factors, and ductless glands. The laboratory work consists mainly of blood analysis under both normal and pathological conditions. The laboratory or lectures may be taken separately. Two lectures, credit 2 s.h., and 6 laboratory hours, credit 2 s.h. 4 s.h.  
PROFESSOR WILSON

**253-254. Advanced Organic Chemistry.**—A continuation of Chemistry 151-152, including discussion of the theories of organic chemistry. The laboratory work will include qualitative organic analysis, together with preparations of the more difficult type, requiring reference to the original literature. Two lectures and 6 laboratory hours. Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. 8 s.h.

ASSOCIATE PROFESSOR BIGELOW, ASSISTANT  
PROFESSOR HAUSER, AND DR. BROWN

**261-262. Physical Chemistry.**—Fundamentals of general theoretical chemistry illustrated by selected laboratory experiments. Two recitations and three laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent and Mathematics 7-8 or equivalent. Calculus is desirable but is not required. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. 6 s.h.

PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

**271. Introduction to Research.**—Lectures on the use of chemical literature, research methods, recording and publication of results, preparation of theses and other topics. One lecture. 1 s.h.

PROFESSORS GROSS AND VOSBURGH, AND ASSOCIATE PROFESSOR BIGELOW

[Not offered in 1938-39]

**273-274. Seminar.**—Required of all graduate students in chemistry. One hour a week discussion. 2 s.h.

PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSOR BIGELOW;  
ASSISTANT PROFESSORS HAUSER AND SAYLOR;  
DRS. BROWN, HILL AND HOBBS

**275-276. Research.**—The aim of this course is to give instruction in methods used in the investigation of original problems. It is open to Seniors who have had courses 70, 151-152, and who are taking 261-262. Nine hours a week and conferences. 3 or 6 s.h.

PROFESSORS GROSS, VOSBURGH, AND WILSON; ASSOCIATE PROFESSOR BIGELOW;  
ASSISTANT PROFESSORS HAUSER AND SAYLOR; DRS. BROWN, HILL, AND HOBBS

#### FOR GRADUATES

**303. Thermodynamics.**—Fundamental laws of thermodynamics and their applications to chemistry and physics. Offered jointly by the Departments of Chemistry and Physics. 3 s.h.

PROFESSORS GROSS AND SPONER

**304. Chemical Thermodynamics.**—A continuation of course 303 with emphasis on applications to chemical problems. The topics considered include chemical equilibrium, theory of solutions and the phase rule. 3 s.h.

PROFESSORS GROSS AND VOSBURGH

**351-352. Advanced Synthetic Organic Chemistry.**—Recent advances in certain selected fields such as medicinals, dyes, perfumes, terpenes, alkaloids, etc., will be discussed. The emphasis will be placed on structure studies and synthetic methods. Lecture or seminar one hour each week. **2 s.h.**

ASSOCIATE PROFESSOR BIGELOW

**363-364. Advanced Physical Chemistry.**—A discussion of selected theories of solution, of reaction velocity and catalysis and of molecular forces and structure. Prerequisites: Chemistry 261-262 or its equivalent and calculus. **6 s.h.**

[Not offered in 1938-39]

PROFESSORS GROSS AND VOSBURGH; ASSISTANT PROFESSOR SAYLOR; DRs. HILL AND HOBBS

#### RELATED COURSES IN OTHER DEPARTMENTS BIOCHEMISTRY

**M241. General Biochemistry.**—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry and at least one year of college biology. *Winter quarter.* **6 s.h.**

DR. PERLZWEIG, DR. TAYLOR, AND STAFF

**M242. Biochemical Preparations.**—Prerequisite: Biochemistry M241. *Spring, summer, fall quarters.* Hours by arrangement. **2 s.h.**

DR. TAYLOR AND STAFF

**M341. Pathological Chemistry.**—Two hours per week by arrangement. *Winter, spring, and summer quarters.* Prerequisites: Biochemistry M241 and Physiology M261-2.

DRs. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

#### BOTANY

**342. Plant Microchemistry.**—**2 s.h.**

ASSISTANT PROFESSOR ADDOMS

#### PHYSICS

**323. Theory of Atomic Spectra.**—**3 s.h.**

PROFESSOR SPONER

**324. Theory of Molecular Spectra.**—**3 s.h.**

PROFESSOR SPONER

[323 and 324 not offered in 1938-39]

#### ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR GLASSON,\* CHAIRMAN—103 ADMINISTRATION BUILDING; PROFESSOR HOOVER, DIRECTOR OF GRADUATE STUDIES—105 SCHOOL OF RELIGION; PROFESSORS HAMILTON,† SPENGLER AND VON BECKERATH; ASSISTANT PROFESSORS BLACK, DE VYVER, EITEMAN, RATCHFORD, AND SPRINGER

#### FOR SENIORS AND GRADUATES

**203-204. Money, Banking, and Credit.**—After a preliminary study of monetary history and theory, together with an account of the development of credit instruments, there follows a more extended presentation of the theory and practice of banking. The first section of this course (*M.W.F., third period*) is limited to twenty-five Graduates and Seniors of superior standing. **6 s.h.**

PROFESSOR GLASSON\*

**215. Economic Systems.**—A study of alternative economic systems. In addition to an analysis of communism, anarchism, and the variants of socialism, the course will include a consideration of other proposed modifications of the existing economic order. **3 s.h.**

PROFESSOR HOOVER

**216. Economic Functions of the State.**—A consideration of the primary and secondary economic functions of government and of the legislation which provides for the performance of these functions, such as social legislation and the regulation of commerce and industry. **3 s.h.**

PROFESSOR HOOVER

\* Absent on leave, second semester, 1938-39.

† Absent on leave, 1937-38.



**217. Business Cycles.**—Description and analysis of the causes and consequences of economic rhythms and movements of various lengths (e.g., seasonal, cyclical, long-period, etc.). Analysis of methods proposed as means of curtailing such movements, or of mitigating their effects. 3 s.h.

PROFESSOR SPENGLER

**218. Population Problems and the Standard of Living.**—A critical survey of the economic laws of returns and of pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural increase upon various classes of industry and upon employment; examination of the factors which govern population growth and of current population trends; analysis of international economic and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth rates. 3 s.h.

PROFESSOR SPENGLER

**220. Public Debts in the United States.**—A study of the characteristics of public credit as shown by the experience of national, state, and local governments in the United States. Topics considered include: forms, methods, and purposes of borrowing; effects of the contraction and repayment of debts on governmental fiscal policies, the banking and credit system, and business activity; methods of controlling or limiting debts; refunding and adjustment procedures; defaults and repudiations. 3 s.h.

ASSISTANT PROFESSOR RATCHFORD

**221. The Economic History of Modern Europe.**—A study of the economic development of Europe since the sixteenth century, treating such topics as the guilds, mercantilism, money, banking, crises, the commercial revolution, and the industrial revolution. The rise of modern capitalism and the historical backgrounds of present economic problems will be emphasized. 3 s.h.

PROFESSOR HAMILTON\* AND ASSISTANT PROFESSOR DE VYVER

**222. The Economic History of the United States.**—A study of the agricultural, industrial, commercial, and financial progress of the United States from colonial times to the present day. Special attention will be devoted to mass production, business cycles, great fortunes, and the relationships between government and business. 3 s.h.

PROFESSOR HAMILTON\* AND ASSISTANT PROFESSOR DE VYVER

**223. State and Local Finance.**—A study of expenditures, taxation, and financial administration in state and local governments with emphasis on current problems. Special attention will be given to research methods and materials and to the financial relations between state and local governments. Prerequisite: Economics 187 or equivalent. 3 s.h.

[Not offered in 1938-39]

ASSISTANT PROFESSOR RATCHFORD

**224. Federal Finance.**—A study of the expenditures, revenues, and financial administration of the government of the United States, with emphasis on current problems. Special attention given to budgetary procedure, corporate and individual income taxes, and the financial relations between federal and state governments. Prerequisite: Economics 187 or equivalent. 3 s.h.

[Not offered in 1938-39]

ASSISTANT PROFESSOR RATCHFORD

**227-238. Statistical Methods.**—A study of statistical methods appropriate for dealing with problems in business and the social sciences. In addition to developing more thoroughly the subjects considered in *Business Statistics*, the following methods will be considered: simple, multiple, partial, and curvilinear correlation; curve fitting; probability; frequency distributions; and reliability of estimates. Prerequisite: Business Statistics 138 or consent of the instructor. 6 s.h.

ASSISTANT PROFESSOR SPRINGER

\* Absent on leave, 1937-38.

**239. Prices.**—A theoretical study of the forces governing price behavior and an historical examination of the fluctuations, disparities, and trends of European and American prices, particularly in periods marked by acute monetary disorder or by rapid change in the stock of the precious metals. Special attention will be devoted to post-war inflation in France and Germany and to the world-wide collapse of prices after 1929. **3 s.h.**

PROFESSOR HAMILTON\* AND ASSISTANT PROFESSOR EITEMAN

**241-242. Value and Distribution.**—This course is a critical survey of the leading contemporary explanations of price formation and of the determination of interest, rent, wages, and profits. **6 s.h.**

PROFESSOR SPENGLER

**245-246. Problems of Modern Industrialism.**—This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organization. External political and social forces are then introduced into the complex to show modern industrialism as a phase of mature capitalism. Against the background of modern capitalism, the issue and trends of public policy with respect to economic organization in America and Europe are compared and appraised. **6 s.h.**

PROFESSOR VON BECKERATH

**253. Labor Problems.**—An examination of present-day labor problems followed by an intensive study of methods used by employers and workers in meeting those problems. **3 s.h.**

ASSISTANT PROFESSOR DE VYVER

**256. Labor Legislation.**—A study of the relations of the state to labor problems with special reference to remedial legislation, to interference in labor disputes, and to social insurance. Prerequisite: Economics 51-52; Economics 253, or with the consent of the instructor. **3 s.h.**

[Not offered in 1938-39]

ASSISTANT PROFESSOR DE VYVER

**260. Social Insurance.**—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pensions, and health insurance for workers. Particular attention will be given to the present federal and state social security legislation. **3 s.h.**

ASSISTANT PROFESSOR DE VYVER

**265. International Trade and Tariff Policies.**—An analysis of the theoretical principles underlying international trade with an historical study of the foreign trade and tariff policies of the United States, France, Germany, and England from the eighteenth century to the present. **3 s.h.**

PROFESSOR VON BECKERATH

**266. International Finance.**—A study of the mechanism of international payment with attention to international movements of capital, the peculiarities of an inconvertible paper money regime, and related problems. **3 s.h.**

PROFESSOR HAMILTON\* AND ASSISTANT PROFESSOR EITEMAN

**268. Competitive versus Monopolistic Enterprise.**—(1) Competition as an economic order; (2) competition as a political order; (3) monopoly as a disturbance of (1) and of (2). (4) What can government do for the maintenance of the competitive order? (5) What can the judiciary do for the maintenance of the competitive order? (6) What can business do for the maintenance of the competitive order? (7) Limits and difficulties of a liberal solution. (8) Short discussion of different types of compromise solutions, both in the governmental and the economic field. (Formerly 267.) **2 s.h.**

PROFESSOR VON BECKERATH

**275-276. Advanced Industrial Accounting and Management.**—This course traces the ways and means of executive control through statistics and industrial accountancy. Emphasis is put upon the economics of overhead costs.

\* Absent on leave, 1937-38.



A complete practice set of cost accounting is worked by each student during the course. Courses 57-58 and 105 are ordinarily prerequisites for this course. 6 s.h. ASSISTANT PROFESSOR BLACK

## FOR GRADUATES

**311-312. History of Political Economy.**—This course traces the development of economic theory, giving special attention to the various schools of economic thought in England, France, Germany, and the United States. A large amount of collateral reading in the works of typical authors is required. Lectures and class discussions. 6 s.h.

PROFESSOR HAMILTON\* AND ASSISTANT PROFESSOR EITEMAN

**313-314. Seminar in Economic Theory.**—The course consists of directed research in economic theory. The primary purpose is the correction of authoritative eclecticism and its replacement by individually integrated theory. Prerequisite: Economics 241-242 or its equivalent. 6 s.h. PROFESSOR HOOVER

**318. General Seminar in Economics.**—All graduate students with economics as a major subject are members of this seminar. Reports of progress in research will be made, and there will be lectures and critical discussion by members of the Department. Year course. 2 s.h. STAFF

## RELATED COURSES IN OTHER DEPARTMENTS

Attention is called to the following courses in related departments:

**Forestry 278. Economics of Forestry.**—3 s.h.

ASSOCIATE PROFESSOR THOMSON

**History 219-220. The History of the European Proletariat.**—6 s.h.

[Not offered in 1938-39]

PROFESSOR CARROLL

**Political Science 207. American Constitutional Law and Theory.**—3 s.h.

PROFESSOR WILSON

**Political Science 209. State and Local Governments in the United States.**—3 s.h.

PROFESSOR RANKIN

**Political Science 271. Socio-Politics and Capitalism.**—3 s.h.

PROFESSOR VON BECKERATH

**Sociology 219. Urban Sociology.**—3 s.h. ASSISTANT PROFESSOR THOMPSON

**Sociology 220. Rural Sociology.**—3 s.h. ASSISTANT PROFESSOR THOMPSON

**Sociology 227. Emigration and Immigration.**—3 s.h. PROFESSOR JENSEN

[Not offered in 1938-39]

## EDUCATION

PROFESSOR HOLTON, CHAIRMAN—113 ADMINISTRATION BUILDING; PROFESSOR BROWN-

ELL, DIRECTOR OF GRADUATE STUDIES—1C WEST DUKE BUILDING; PROFESSORS

CHILDS AND PROCTOR; ASSOCIATE PROFESSOR CARR; ASSISTANT

PROFESSOR EASLEY

The Department offers a full major of work in educational psychology toward the degree of Doctor of Philosophy, with approved minors in as many as two of the divisions listed for the Master's degree, and an approved minor in psychology or in some other department offering work closely related to the thesis problem of the candidate. It is planned to offer complete majors in other divisions as rapidly as the growth of the Department justifies.

The Department offers work toward the Master of Arts and Master of Education degrees, and minor work toward the Doctor of Philosophy degree, in the divisions of elementary education, experimental education and educational psychology, history and philosophy of education, public school administration, and secondary education and educational sociology. It is

\* Absent on leave, 1937-38.

important for students who are degree candidates to choose their course according to some unified plan; they are reminded that mere accumulation of more or less unrelated courses in various divisions with minor work in some department only remotely related to the student's major work does not lead to a graduate degree. Every candidate for a Master's degree should elect at least six, and preferably twelve, semester-hours of course work in the special division in which he intends to write his thesis. Students who expect to write theses in the history of education are required to take their minor work in American history. Students writing in school administration are advised to elect minor work in economics and political science. Students in educational psychology should elect their minor work in psychology. No student, except by special approval of the Department and of the Graduate School, is permitted to take minor work in more than one department or to the amount of more than six semester-hours.

### ELEMENTARY EDUCATION

#### FOR SENIORS AND GRADUATES

**207. Technique of Teaching.**—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. 3 s.h. (E) ASSOCIATE PROFESSOR CARR  
[Not offered in 1938-39]

**212. Psychology of the Elementary School Subjects.**—A study of the psychology of learning as applied to teaching the common-school subjects. *First semester.* 3 s.h. (E) ASSOCIATE PROFESSOR CARR

**222. The Curriculum and Materials of the Elementary Grades.**—A study of curriculum problems in the elementary schools. 3 s.h. ASSOCIATE PROFESSOR CARR

**232. Elementary School Supervision.**—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. 3 s.h. (E) ASSOCIATE PROFESSOR CARR  
[Not offered in 1938-39]

### EXPERIMENTAL EDUCATION AND EDUCATIONAL PSYCHOLOGY

#### FOR SENIORS AND GRADUATES

**208. Mental Tests and Applications.**—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests, and training in the giving of individual tests. Prerequisite: course 258 or six semester-hours of other work in educational psychology or psychology. 3 s.h. (E) ASSISTANT PROFESSOR EASLEY

**209. Statistical Methods Applied to Education.**—A study of statistical methods of treating educational and social data designed to enable teachers or administrator to interpret and use the results of scientific investigations in education. 3 s.h. ASSISTANT PROFESSOR EASLEY  
[Not offered in 1938-39]

**216. Psychological Principles of Secondary Education.**—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. 3 s.h. PROFESSOR CHILDS  
[Not offered in 1938-39]

**217. Advanced Educational Psychology.**—A systematic survey of the field of educational psychology, required of all majors in that field. 3 s.h. (F) ASSISTANT PROFESSOR EASLEY

**218. Educational Implications of Genetic Psychology.**—Special section of course 118, intended primarily for graduate students, ordinarily not offered the same year in which 118 is given. Prerequisite: six semester-hours of psychology or educational psychology. 3 s.h. (E) PROFESSOR BROWNELL  
[Not offered in 1938-39]

**219. Experimental Education.**—This course is designed to provide training (1) in planning, (2) in prosecuting, and (3) in reporting quantitative investigations in the field of education, more especially in the field of learning and teaching the various school subjects. 3 s.h. (E)  
PROFESSOR BROWNELL

**227. The Psychology of Learning: Problems.**—The major problems related to the learning process will be examined, with the experimental literature bearing on them. The curves of learning and forgetting, the distribution of practice, economical methods of learning, and the transfer of training will be the major topics considered. 3 s.h. ASSISTANT PROFESSOR EASLEY

**228. The Psychology of Learning: Theoretical and Experimental.**—This is a continuation of course 227. In this semester the laws of learning, the most important explanatory principles, and the major systems of psychology of learning will be considered. Class experiments will run throughout the semester. Prerequisite: course 227 or its equivalent. 3 s.h.  
ASSISTANT PROFESSOR EASLEY

**237. Investigations in Reading.**—A summary of the results of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing diagnosis, and supervision; emphasis on problems requiring further investigation. *Second semester.* 3 s.h. (E) ASSOCIATE PROFESSOR CARR

**247. Investigations in Arithmetic.**—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. *Second semester.* 3 s.h.  
PROFESSOR BROWNELL

**258. Educational Measurements.**—A critical study of the principles and techniques involved in measurement in education, with opportunity for individual research. Prerequisite: twelve semester-hours in the Department, including a course in educational psychology. 3 s.h. (E) PROFESSOR BROWNELL

#### FOR GRADUATES

**307-308. Seminar in Educational Psychology.**—Required of graduate students in educational psychology. 2 s.h. (*each term*, E)  
PROFESSOR BROWNELL AND ASSISTANT PROFESSOR EASLEY

**309-310. Research in Educational Psychology.**—This course provides opportunity for more advanced graduate students to engage in individual research projects under close supervision. Credit allowed proportionate to achievement and time devoted to the course. Enrollment by permission of instructor only. 3 to 6 s.h. (E)  
PROFESSOR BROWNELL

**318. Investigation of Study Problems.**—A brief survey of the available literature on study, followed by extensive case-work in the study habits of high school and undergraduate college students. Diagnosis, corrective and remedial teaching in so far as possible, and reports. An introductory course in educational diagnosis and the treatment of individual differences. 3 s.h.  
[Not offered in 1938-39] PROFESSOR BROWNELL

**338. Research in Reading.**—A course designed for students who have original problems in reading which they desire to investigate. Such studies may be either individual or co-operative. Education 247 is advised as a preliminary course, but is not required. 3 s.h.  
ASSOCIATE PROFESSOR CARR  
[Not offered in 1938-39]

**348. Research in Arithmetic.**—A course designed for students who have original problems in arithmetic which they desire to investigate. Such studies may be either individual or co-operative. Education 247 is advised as a preliminary course, but is not required. 3 s.h.  
PROFESSOR BROWNELL  
[Not offered in 1938-39]

### HISTORY AND PHILOSOPHY OF EDUCATION

#### FOR SENIORS AND GRADUATES

**200. Introduction to the Philosophy of Education.**—A consideration of fundamental concepts underlying educational theory. 3 s.h.  
[Not offered in 1938-39] PROFESSOR HOLTON

**214. History of Education in the United States.**—A study of the development of the American public school and the interaction of higher education and the public school. 3 s.h.  
[Not offered in 1938-39] PROFESSOR HOLTON

**244. Studies in the Historical Development of Public School Administration.**—An advanced course devoted to the development of public school administration in the South, with especial reference to North Carolina as a type. 3 s.h.  
[Not offered in 1938-39] PROFESSOR HOLTON

**254. History of Secondary Education in the United States.**—A study of historical and comparative conceptions of the secondary school, changes in American life affecting the secondary school, present status of the secondary school, current tendencies toward expansion, and the problem of state and Federal aid. *First semester.* 3 s.h.  
[Not offered in 1938-39] PROFESSOR PROCTOR

**264. Recent Movements in American Education.**—An intensive study of educational thought and practice since 1900. 3 s.h.  
PROFESSOR HOLTON

**294. Comparative Education: Recent Movements in European Educational Systems.**—A comparative study of the school systems of the principal countries of Europe, with emphasis upon changes since the World War. *First semester.* 3 s.h.  
ASSOCIATE PROFESSOR CARR

### PUBLIC SCHOOL ADMINISTRATION

#### FOR SENIORS AND GRADUATES

**233. Administrative Pupil-Accounting.**—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and the making of reports. The study includes a consideration of individual differences, promotions, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests; and some practice in the computation of statistical measures. 3 s.h.  
[Not offered in 1938-39] PROFESSOR PROCTOR

**234. Secondary School Organization and Administration.**—A study of the outstanding problems of secondary school organization and administration other than the problem of gradation and classification of pupils. 3 s.h.  
PROFESSOR PROCTOR

**253. Legal Phases of School Administration.**—A study of judicial decisions and the development of outstanding features of statute law controlling school administration, with special emphasis upon North Carolina materials. 3 s.h.

PROFESSOR HOLTON

[Not offered in 1938-39]

#### FOR GRADUATES

**323. Public School Finance.**—A study of educational costs, sources of revenue for the support of public education, collection of revenue, basis of distribution, and accounting for funds spent. *Second semester.* 3 s.h.

[Not offered in 1938-39]

PROFESSOR PROCTOR

**343. State and County School Administration.**—A study of state and county organization of public schools, emphasizing underlying principles. *Second semester.* 3 s.h.

[Not offered in 1938-39]

PROFESSOR PROCTOR

**363. City School Administration.**—A study of the organization and administration of city school systems, including administrative phases of supervision. 3 s.h.

PROFESSOR PROCTOR

[Not offered in 1938-39]

### SECONDARY EDUCATION AND EDUCATIONAL SOCIOLOGY

#### FOR SENIORS AND GRADUATES

**S205. Curriculum Problems in Secondary Education.**—A consideration of the aims and objectives of secondary school subjects, emphasizing practical problems of curriculum-making in the high school. 3 s.h.

[Not offered in 1938-39]

PROFESSOR CHILDS

**206. Sociological Foundations of the Secondary-School Subjects.**—A consideration of the aims and objectives of the secondary-school. Prerequisite: six semester-hours in education, including course 105. 3 s.h.

PROFESSOR CHILDS

**225. The Teaching of High-School History.**—Identical with History 211. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h.

ASSISTANT PROFESSOR MANCHESTER

**246. The Teaching of Mathematics.**—Identical with Mathematics 204. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h.

PROFESSOR RANKIN

**266. The Teaching of High-School French.**—Identical with French 218. 3 s.h.

PROFESSOR WEBB

#### FOR GRADUATES

**300. Methods of Educational Research: Seminar.**—Graduate students are instructed in methods of research as applied to selected educational problems. Each student must select for intensive study and practice a subject in which he is interested. 3 s.h.

MEMBERS OF THE DEPARTMENT

### RELATED COURSES IN OTHER DEPARTMENTS

#### FOR MAJORS IN EDUCATIONAL PSYCHOLOGY, ELEMENTARY EDUCATION, AND SECONDARY EDUCATION

**Psychology 201. Social Psychology.**—2 s.h.

PROFESSOR MCDUGALL

[Not offered in 1938-39]

**Psychology 205. General Psychology.**—2 s.h.

**Psychology 209. Advanced Laboratory Methods in Psychology, with Lectures.**—4 s.h.

ASSOCIATE PROFESSOR ZENER



- Psychology 211. Neurological Foundations of Behavior.—4 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR ZENER
- Psychology 216. Seminar in Comparative Psychology.—2 or 3 s.h.  
ASSISTANT PROFESSOR ADAMS
- Psychology 217. Gestalt Theory.—3 s.h.  
[Not offered in 1938-39] ASSISTANT PROFESSOR ADAMS
- Psychology 219. History of Psychology.—2 s.h. PROFESSOR McDUGALL
- Psychology 226. Contemporary Schools of Psychology.—3 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR ZENER
- Psychology 305. Seminar.—2 or 3 s.h. PROFESSOR McDUGALL  
[Not offered in 1938-39]
- Psychology 306. Seminar in Child Psychology.—2 or 3 s.h.  
[Offered in first semester, 1938-39] ASSISTANT PROFESSOR ADAMS
- Psychology 309. Theory of Learning.—3 s.h. ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]
- Psychology 315. Child Psychology.—3 s.h. ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]
- Sociology 212. Child Welfare.—3 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]
- Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]
- Sociology 232. Cultural Anthropology.—3 s.h. PROFESSOR HART
- Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR ELLWOOD
- Sociology 320. History of Social Philosophy.—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN

## FOR MAJORS IN PUBLIC SCHOOL ADMINISTRATION

- Economics 230. Public Debts.—3 s.h. ASSISTANT PROFESSOR RATCHFORD
- Political Science 209. State and Local Government in the United States.—  
3 s.h. PROFESSOR RANKIN
- Political Science 291. Municipal Government.—3 s.h. PROFESSOR RANKIN
- Religion 365. Seminar in Character Education and the State.—2 s.h.  
PROFESSOR SMITH
- Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]

## FOR MAJORS IN HISTORY AND PHILOSOPHY OF EDUCATION

- History 209-210. Constitutional History of the United States, 1763-1860.—  
6 s.h. ASSOCIATE PROFESSOR SYDNOR AND ASSISTANT PROFESSOR STILL
- History 308. Studies in the Social History of the United States.—4 s.h.  
PROFESSOR SHRYOCK
- Philosophy 205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY
- Philosophy 208. Political Philosophy.—3 s.h.  
ASSOCIATE PROFESSOR MORGAN
- Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY
- Religion 362. Ethical Theory of Christian Education.—3 s.h.  
PROFESSOR SMITH

Religion 363-364. Religious Thought in the Rise of American Culture.—  
6 s.h. PROFESSOR SMITH

Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR ELLWOOD

Sociology 320. History of Social Philosophy.—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN

### ENGLISH

PROFESSOR BROWN, CHAIRMAN—2A WEST DUKE BUILDING; PROFESSOR BAUM,  
DIRECTOR OF GRADUATE STUDIES—402 LIBRARY (W); PROFESSORS GILBERT,  
HUBBELL,\* IRVING, AND WHITE; ASSOCIATE PROFESSOR GOHDES;  
ASSISTANT PROFESSOR WARD

#### FOR SENIORS AND GRADUATES

201-202. **Anglo-Saxon.**—The first half of the year is given to the reading of prose and to a study of the language; the second half, to the reading of *Beowulf*. 6 s.h. PROFESSOR BROWN

203-204. **Chaucer.**—The work consists of the reading and study of the principal Canterbury Tales, the Troilus, the minor poems, and some of the translations. Students prepare a reading report and a term paper. 6 s.h. PROFESSOR BAUM

207-208. **English Literature, 1400-1550.**—6 s.h. PROFESSOR BAUM  
[Not offered in 1938-39]

213-214. **Folk-Lore and Folk-Songs.**—The course consists of an extensive study during the first semester of the field of folk-lore and during the second semester of the ballad and of other folk-songs. 3 s.h. PROFESSOR BROWN  
[In 1938-39 the second half is offered during the first semester.]

215-216. **Elizabethan Drama.**—6 s.h. PROFESSOR GILBERT  
[Only 215 offered in 1938-39]

217. **Spenser.**—In this course students make a detailed study of Spenser's work, giving special attention to the major poems. There are frequent written reports and one term paper. 3 s.h. PROFESSOR GILBERT

218. **Milton.**—A detailed study of Milton's prose and poetry with emphasis on the major poems constitutes the work of the course. There are frequent written reports and a term paper. 3 s.h. PROFESSOR GILBERT  
[In 1938-39 offered during the first semester]

219-220. **English Prose and Poetry of the Eighteenth Century.**—The work of the first semester falls within the Age of Pope; that of the second, within the Age of Johnson. There are term papers. 6 s.h. PROFESSOR IRVING

221. **Restoration and Eighteenth-Century Drama.**—3 s.h.  
[Not offered in 1938-39] ASSISTANT PROFESSOR WARD

225-226. **Studies in Victorian Literature.**—6 s.h. PROFESSOR BAUM  
[Not offered in 1938-39]

227-228. **Literary Criticism.**—The work of the course consists of a study of the history of literary criticism from Aristotle to the present. There are oral and written reports and a term paper. 6 s.h. PROFESSOR GILBERT  
[Not offered in 1938-39]

229-230. **American Literature, 1800-1870.**—A survey of the principal writers of the period. There are term papers and two oral reports each semester. Seniors must have credit for English 137-138 or its equivalent. 6 s.h. PROFESSOR HUBBELL AND ASSOCIATE PROFESSOR GOHDES  
[In 1938-39 both 229 and 230 are offered in the first semester]

\* Absent on leave, second semester, 1938-39.

**231-232. Special Studies in American Authors.—6 s.h.**

[Not offered in 1938-39]

ASSOCIATE PROFESSOR GOHDES

**233-234. American Literature since 1870.**—This course is a survey of the period, including a few of the more important living authors. There are two term papers. 6 s.h.

ASSOCIATE PROFESSOR GOHDES

**239-240. Shakespeare Problems.**—Students are expected to have read the principal plays before entering the course. 3 s.h.

PROFESSOR BROWN

[In 1938-39 the first half is offered during the second semester]

## FOR GRADUATES

**303-304. Studies in Elizabethan Literature.—6 s.h.**

PROFESSOR GILBERT

[Not offered in 1938-39]

**307-308. Southern Literature and Culture in the United States.—6 s.h.**

[Not offered in 1938-39]

PROFESSOR HUBBELL

**313-314. Studies in the Romantic Writers of the Early Nineteenth Century.—6 s.h.**

[Not offered in 1938-39]

PROFESSOR WHITE

**315-316. Middle English.—6 s.h.**

[Not offered in 1938-39]

PROFESSOR BAUM

**349-350. Research Courses.**—Special instruction is offered in the following subjects either in connection with the writing of Master's theses and doctoral dissertations or, for three or more students, as seminar courses. Ordinarily three of these courses are offered each year, and in them all candidates for the Master's degree are expected to enroll. 6 s.h.

Students who wish to elect one of these as a seminar course should consult the Director of Graduate Studies as early as possible.

In 1938-39 (d), (h), and (i) will be offered.

(a) **Folk-Lore and the Ballad.**

PROFESSOR BROWN

(b) **Shakespeare Problems.**

PROFESSOR BROWN

(c) **English Languages and Literature, 1200-1550.**

PROFESSOR BAUM

(d) **Victorian Literature.**

PROFESSOR BAUM

(e) **Elizabethan and Seventeenth-Century Literature.**

PROFESSOR GILBERT

(f) **Literary Criticism.**

PROFESSOR GILBERT

(g) **The Eighteenth Century.**

PROFESSOR WHITE

(h) **The Romantic Movement.**

PROFESSOR WHITE

(i) **American Literature.**

PROFESSOR HUBBELL AND ASSOCIATE PROFESSOR GOHDES

## RELATED COURSES IN OTHER DEPARTMENTS

The attention of students of English is directed to the following courses:

**German 205-206. Middle High German.—6 s.h.**

PROFESSOR VOLLMER

[Not offered in 1938-39]

**German 301-302. Gothic—History of the German Language.—6 s.h.**

PROFESSOR VOLLMER

**Greek 201-202. Greek Tragedy.—6 s.h.**

PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY

**History 308. Studies in the Social History of the United States.—4 s.h.**  
 PROFESSOR SHRYOCK

**History 221-222. The Age of the Renaissance—6 s.h.**  
 [Not offered in 1938-39] ASSOCIATE PROFESSOR NELSON

**History 223-224. Medieval Institutions and Culture.**  
 ASSISTANT PROFESSOR QUINN

**Philosophy 201-202. The Philosophy of Art.—6 s.h.** PROFESSOR GILBERT

**Philosophy 213-214. History of Aesthetics.—6 s.h.** PROFESSOR GILBERT  
 [Not offered in 1938-39]

**Psychology 202. Psychology of Aesthetics.—3 s.h.** PROFESSOR LUNDHOLM

### DIVISION OF FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—310 BIOLOGY  
 BUILDING; PROFESSORS SCHUMACHER AND WOLF; ASSOCIATE PROFESSORS  
 HARRAR, MAUGHAN,\* AND THOMSON; ASSISTANT  
 PROFESSORS COILE AND KRAMER

Major and minor work is offered in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees to students who have received degrees from professional schools of forestry of recognized standing or from approved colleges or universities. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, silvics, forest soils, forest mensuration, forest management, and forest economics, except that a major cannot be taken in forest management. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them. Students who do not have previous training in forestry will be required to complete a minimum of thirty semester-hours of approved work in the Division of Forestry as a preliminary requirement for admission to candidacy for the A.M. and Ph.D. degrees. These men will not be regarded as professionally trained foresters. For information on professional training in forestry, see *Bulletin of the School of Forestry*.

#### FOR SENIORS AND GRADUATES

**224. Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. **4 s.h.**  
 PROFESSOR WOLF

**251. Sampling Methods in Forestry.**—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. **2 s.h.** PROFESSOR SCHUMACHER

**252. Forest Mensuration.**—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. **2 s.h.**  
 PROFESSOR SCHUMACHER

**253. Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. **3 s.h.**  
 ASSOCIATE PROFESSOR HARRAR

\* On leave, first semester, 1938-39.

**257. Design of Forestry Experiments and Analysis of Data.**—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific method in forest research. 5 s.h.

PROFESSOR SCHUMACHER

**259. Wood Anatomy and Properties.**—Anatomical, chemical, and non-mechanical physical properties of wood; macroscopic and microscopic identification of more important woods of the United States. Prerequisites: one year of botany and Chemistry 1 and 2, or equivalents. 3 s.h.

ASSOCIATE PROFESSOR HARRAR

**261. Forest Soils.**—Origin, development, and classification of soils with special emphasis on those developed in climates supporting forests; morphological, physical, and chemical properties of soils in relation to growth of trees; field identification, field sampling, laboratory analysis, and interpretation of field and laboratory observations; interrelationships of soil and forest cover. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents. Physical geology and analytical chemistry are also desirable. 3 s.h.

ASSISTANT PROFESSOR COILE

**264. Silvics.**—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: Botany 151 and 156, and Forestry 253 and 261, or equivalents. 3 s.h.

PROFESSOR KORSTIAN

**277. Forest Policy.**—Critical study of forestry movement and development of a forestry policy, particularly in the United States; brief résumé of forestry in important foreign countries; public land laws of the United States; development of Federal and State forestry; forestry laws. 2 s.h.

ASSOCIATE PROFESSOR THOMSON

**278. Economics of Forestry.**—Principles of forest economics. Economic and social values of forests; forest resources and wood requirements; economics of wood production and consumption; prices of forest products; forestry and public finance; forestry and land use; forestry credit; forest fire insurance; forestry as a private business enterprise. Prerequisite: at least one course in the principles of economics. 3 s.h.

ASSOCIATE PROFESSOR THOMSON

#### FOR GRADUATES

**323-324. Advanced Forest Pathology.**—Advanced study and research on life histories and control of diseases of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and forest pathology. Credits to be arranged.

PROFESSOR WOLF

**351-352. Advanced Physiology of Forest Trees.**—Advanced study and research on problems in physiology of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged.

ASSISTANT PROFESSOR KRAMER

**357-358. Research in Forestry.**—Credits to be arranged. Students who have had adequate training may do research under direction of members of the Faculty in the following branches of forestry:

- (a) **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents.

PROFESSOR KORSTIAN

- (b) **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.

ASSISTANT PROFESSOR COILE

- (d) **Forest Management.**—Prerequisite: Forestry 281 or equivalent.

ASSOCIATE PROFESSOR MAUGHAN



(e) **Forest Economics.**—Prerequisites: Forestry 278 and 282 or equivalents. ASSOCIATE PROFESSOR THOMSON

(f) **Wood Anatomy and Properties.**—Prerequisites: Forestry 259 and 260, or equivalents. ASSOCIATE PROFESSOR HARRAR

(g) **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents. PROFESSOR SCHUMACHER

## GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN—205 PAGE AUDITORIUM;  
PROFESSOR KRUMMEL

FOR SENIORS AND GRADUATES

201-202. **Goethe.**—A careful study of Goethe's life and works, with special emphasis upon the broader aspects of his ever-widening interests and literary activities. 6 s.h. PROFESSOR KRUMMEL  
[Not offered in 1938-39]

207-208. **German Romanticism.**—The course covers the entire field of German Romanticism from 1800 to 1850. 6 s.h. PROFESSOR VOLLMER  
[Not offered in 1938-39]

209-210. **Kleist, Grillparzer, and Hebbel.**—A study of the leading representatives of German drama in the first half of the nineteenth century. 6 s.h. PROFESSOR KRUMMEL

211-212. **Heinrich Heine and the Young German Movement.**—A study of the German poet and his immediate successors in the movement known as *Jungdeutschland*. 6 s.h. PROFESSOR VOLLMER

213-214. **Literature of the Empire, 1871-1914.**—A study of the literature of this period as determined particularly by the philosophical, social, political, and religious factors. 6 s.h. PROFESSOR VOLLMER

FOR GRADUATES

301-302. **Gothic—History of the German Language.**—In the first term the essentials of Gothic morphology, phonology and grammar are investigated, and original Gothic literature is read. In the second term the development of German and English from primitive Germanic is studied. 6 s.h. PROFESSOR VOLLMER

## RELATED COURSES IN OTHER DEPARTMENTS

The following courses in other departments are recommended to students, who are majoring in Germanics, as particularly valuable in building a proper background for Germanic studies:

Any graduate courses in literature or philology offered by the ancient and modern language departments.

**History 217-218. Europe since 1870.**—6 s.h. PROFESSOR CARROLL

**History 221-222. The Age of the Renaissance.**—6 s.h. ASSOCIATE PROFESSOR NELSON  
[Not offered in 1938-39]

**History 223-224. Medieval Institutions and Culture.**—6 s.h. ASSISTANT PROFESSOR QUINN

**History 225-226. The Age of the Reformation.**—6 s.h. ASSOCIATE PROFESSOR NELSON

**Philosophy 213-214. History of Aesthetics.**—6 s.h. (E) PROFESSOR GILBERT  
[Not offered in 1938-39]

**Philosophy 223. Contemporary Philosophy.**—3 s.h. PROFESSOR WIDGERY

**Sociology 320. History of Social Philosophy.**—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN

## HISTORY

PROFESSOR LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—2B WEST DUKE BUILDING; PROFESSORS BOYD,\* CARROLL, AND SHRYOCK; ASSOCIATE PROFESSORS CLYDE, NELSON, AND SYDNOR; ASSISTANT PROFESSORS LANNING, MANCHESTER, QUINN, AND STILL; DR. WOODY

### AMERICAN HISTORY

FOR SENIORS AND GRADUATES

**204. The Union, Confederacy, and Reconstruction.**—The rise of secession, significant military phases of the war, administrative and constitutional problems, internal, economic and social conditions incidental to the war and reconstruction. 3 s.h. DR. WOODY

**209-210. Constitutional History of the United States, 1763-1860.**—Among the subjects considered are the issues and nature of the Revolution, the problem of the confederation, the nature of the Constitution in the light of its early interpretation, the rise of political parties, sectionalism and its attendant political and economic interest, and the slavery controversy. 6 s.h. ASSOCIATE PROFESSOR SYDNOR AND ASSISTANT PROFESSOR STILL

**215-216. History of the Foreign Relations of the United States.**—This course traces the history of American diplomacy since 1789. Prerequisites: courses 91 and 92. 6 s.h. ASSOCIATE PROFESSOR CLYDE  
[Not offered in 1938-39]

**231. The Hispanic Colonies of the New World.**—The development of the Iberian states as colonizing powers, the work of the conquerors, the Spanish colonial policy and system, their influences and results, native races, the international contest for supremacy, and the decay of Spanish power in America and the Philippines. 3 s.h. ASSISTANT PROFESSOR LANNING

**232. The Hispanic American Republics of the New World.**—3 s.h. ASSISTANT PROFESSOR LANNING

**233. The Cultural and Institutional History of Colonial Hispanic America.**—3 s.h. ASSISTANT PROFESSOR LANNING  
[Not offered in 1938-39]

**234. Political and Social Problems in the Hispanic American Republics.**—3 s.h. ASSISTANT PROFESSOR LANNING  
[Not offered in 1938-39]

FOR GRADUATES

**308. Studies in the Social History of the United States.**—4 s.h. PROFESSOR SHRYOCK  
[Not offered in 1938-39]

**315. Seminar in Southern History.**—Selected topics in the development of the South Atlantic region, chosen from year to year, in different periods in its development. Year course. 2 s.h. ASSOCIATE PROFESSOR SYDNOR

**321. Seminar in the History of Spain and the Spanish-American Colonies.**—Year course. 2 s.h. ASSISTANT PROFESSOR LANNING

**322. Seminar in American Social History.**—Year course. 2 s.h. PROFESSOR SHRYOCK  
[Not offered in 1938-39]

\* On leave of absence 1937-38; deceased January 19, 1938.

**336. The South in Federal Politics, 1789-1860.**—The interests and political actions of the South on such questions as public lands, internal improvements, foreign policy, the tariff, and slavery; the political techniques and theories of the South. Year course. 4 s.h. ASSOCIATE PROFESSOR SYDNOR  
[Not offered in 1938-39]

**337. Social and Economic Life of the Old South.**—Conditions and trends in the South in respect to population movements, transportation, agriculture, slavery, urban life, commerce, manufacturing, religion, education, and other intellectual activities. Year course. 4 s.h. ASSOCIATE PROFESSOR SYDNOR

## EUROPE AND THE FAR EAST

### FOR SENIORS AND GRADUATES

**217-218. Europe since 1870.**—International relations since the Franco-German War is the chief subject of study in this course; special emphasis is placed upon the underlying economic and political influences. 6 s.h. PROFESSOR CARROLL

**219-220. The History of the European Proletariat.**—This course is concerned chiefly with the origins, expansions, and organization of the industrial working classes of Europe. The following problems are emphasized: the decline of serfdom, the growth of an urban working class and social revolutions in England, France, and Germany prior to the eighteenth century, the results of the Industrial Revolution, and labor movements and theories during the nineteenth and twentieth centuries. 6 s.h. PROFESSOR CARROLL  
[Not offered in 1938-39]

**221-222. The Age of the Renaissance.**—The decline of characteristic features of medieval civilization and the rise of modern European institutions with particular attention to intellectual movements from Dante to Erasmus. 6 s.h. ASSOCIATE PROFESSOR NELSON  
[Not offered in 1938-39]

**223-224. Medieval Institutions and Culture.**—A consideration of the classical heritage, the Germanic infusion, development of ecclesiastical, feudal, monarchical, and communal institutions, relations of Church and State, the rise of universities, vernacular literature, philosophy, and art, in the period 300-1300 A.D. 6 s.h. ASSISTANT PROFESSOR QUINN

**225-226. The Age of the Reformation.**—A survey of European civilization from 1500 through the Peace of Westphalia. 6 s.h. ASSOCIATE PROFESSOR NELSON

**241. History of Modern Japan.**—A survey of institutional development, political, economic, and social, since 1850. 3 s.h. ASSOCIATE PROFESSOR CLYDE

**242. History of Modern China.**—A survey of institutional development, political, economic, and social, since 1840. 3 s.h. ASSOCIATE PROFESSOR CLYDE

### FOR GRADUATES

**305. Seminar in the History of England and the British Empire.**—The work consists of practical training in the methods of historical research based on sources for modern British history. Year course. 2 s.h. PROFESSOR LAPRADE

**317. Seminar in Recent European History.**—Year course. 2 s.h. PROFESSOR CARROLL

**325. British Nationality and Public Opinion.**—A study of the various political and social groups that have contended for power in England since the sixteenth century and the methods they used. Year course. 4 s.h. PROFESSOR LAPRADE

327. **Modern Phases of the English Constitution.**—A brief review of the medieval constitution, followed by a more intensive study of certain aspects of its development in the sixteenth, seventeenth, and eighteenth centuries. Year course. 4 s.h. PROFESSOR LAPRADE  
[Not offered in 1938-39]

343. **Seminar in the History of American Foreign Relations and the Far East.**—Year course. 2 s.h. ASSOCIATE PROFESSOR CLYDE

### THE TEACHING OF HISTORY

FOR SENIORS AND GRADUATES

211. **The Teaching of History and the Social Studies.**—The work consists of a discussion of the question of aims and values in teaching history and civics, textbooks, programs of study, methods of instruction, the use of maps and pictures, the making of lesson-plans for use in the high school, and other problems of high-school teaching. Hours to be arranged. First semester. 3 s.h. ASSISTANT PROFESSOR MANCHESTER

### BIBLIOGRAPHY

FOR GRADUATES

326. **Historiography and Bibliography.**—A survey of the development of historical writing, an examination of the greater collections of historical sources, and a consideration of the inter-relationships of history and other branches of social knowledge. Hours to be arranged. 2 s.h. MEMBERS OF THE DEPARTMENT  
[Not offered in 1938-39]

### RELATED COURSES IN OTHER DEPARTMENTS

Church History 334. **The Church in America.**—6 s.h. PROFESSOR GARBER

Economics 215. **Economic Systems.**—3 s.h. PROFESSOR HOOVER

Economics 216. **Economic Functions of the State.**—3 s.h. PROFESSOR HOOVER

Economics 231. **Economic History of Modern Europe.**—3 s.h. PROFESSOR HAMILTON

Economics 232. **Economic History of the United States.**—3 s.h. PROFESSOR HAMILTON

Economics 311-312. **History of Political Economy.**—6 s.h. PROFESSOR HAMILTON

Old Testament 309. **History of the Ancient Near East.**—3 s.h. ASSISTANT PROFESSOR STINESPRING

Political Science 223. **Political Thought to the Seventeenth Century.**—3 s.h. PROFESSOR WILSON  
[Not offered in 1938-39]

Political Science 224. **Modern Political Theory.**—3 s.h. PROFESSOR WILSON  
[Not offered in 1938-39]

Religious Education 363-364. **Religious Thought in the Rise of American Culture.**—6 s.h. PROFESSOR SMITH

Sociology 320. **History of Social Philosophy.**—3 s.h. PROFESSORS ELLWOOD AND JENSEN

MATHEMATICS

ASSOCIATE PROFESSOR GERGEN, CHAIRMAN—04 SCHOOL OF RELIGION; PROFESSOR THOMAS, DIRECTOR OF GRADUATE STUDIES—02 SCHOOL OF RELIGION; PROFESSORS ELLIOTT AND RANKIN; ASSOCIATE PROFESSOR CARLITZ; ASSISTANT PROFESSORS HICKSON, MARIA, MILES, AND ROBERTS; DR. DRESSLE

The Department offers basic courses in each of the main divisions of mathematics: algebra, analysis, geometry, and applied mathematics.

The Master's degree with major in mathematics is awarded primarily on the basis of scholarship. The candidate's preliminary mathematical work must be approved by the Department through the Director of Graduate Studies. It must include the differential and integral calculus and the equivalent of two of the courses with numbers greater than 100 in the undergraduate announcement. Eighteen of the twenty-four semester-hours of course work required by the general regulations for the degree must be taken in the Department.

The Doctor's degree with major in mathematics is awarded as a recognition of potential ability and training in research. The original dissertation is the most important of the formal requirements for it. A candidate should have in mind this requirement from the outset and plan his courses accordingly.

Because of the important mathematical literature in French and German, all students taking graduate work in mathematics should have a practical reading knowledge of these languages near the beginning of their graduate study.

FOR SENIORS AND GRADUATES

**201. History of Mathematics.**—Evolution of the number system, arithmetic, geometry, algebra, trigonometry, analytic geometry, calculus, and modern geometry. Brief sketches of mathematicians. 3 s.h. PROFESSOR RANKIN  
[Not offered in 1938-39]

**204. Teaching of Mathematics.**—Fundamental processes, methods of study, mathematical literature, content of courses, applications, correlation of different branches. Must be preceded or accompanied by course 100. 3 s.h.  
PROFESSOR RANKIN

**207. Fundamental Concepts of Algebra and Geometry.**—The concepts: number, variable, function, limit, group, definition, axiom, space, proof. Prerequisite: course 100. 3 s.h.  
PROFESSOR RANKIN

**225-226. Theory of Equations.**—Permutations, determinants, matrices, linear systems, polynomials and their roots, constructibility, symmetric functions, resultants, discriminants, simultaneous equations, Galois theory. Prerequisite: course 99. 6 s.h.  
[Not offered in 1938-39]

**227-228. Theory of Numbers.**—Congruences, arithmetic functions, compound moduli, quadratic reciprocity, Gauss sums, quadratic forms, sums of squares. Prerequisite: course 100. 6 s.h. ASSOCIATE PROFESSOR CARLITZ

**229-230. Algebraic Numbers.**—Ideals, unique factorization; divisors of the discriminant; determination of the class number. Prerequisite: course 225. 6 s.h. ASSOCIATE PROFESSOR CARLITZ  
[Not offered in 1938-39]

**235-236. Modern Algebra.**—Groups, fields, rings, matrices, quadratic and bilinear forms, general Galois theory, hypercomplex systems. Prerequisite: course 226. 6 s.h. PROFESSOR THOMAS

**250. Modern Geometry.**—Properties of the triangle, transversals, harmonic properties of figures, poles, polars, inversion. Prerequisite: course 99. 3 s.h.  
[Not offered in 1938-39] PROFESSOR RANKIN



**252. Non-Euclidean Geometry.**—Geometry of Bolyai and Lobachevsky. Prerequisite: course 100. 3 s.h.  
 ASSISTANT PROFESSOR ROBERTS  
 [Not offered in 1938-39]

**255-256. Projective Geometry.**—Postulational, synthetic treatment centering around Desargues' theorem, the principle of projectivity, and the principle of duality. Conics, coördinates, order, continuity, metric properties. Prerequisite: course 99. 6 s.h.  
 [Not offered in 1938-39]

**275. Probability.**—Combinatory analysis, mean values, Bernoulli's theorem, probability integral. Applications to statistics. Prerequisite: course 100. 3 s.h.  
 [Not offered in 1938-39]

**281. Elementary Potential Theory.**—Newtonian potentials, vector fields, Neumann and Dirichlet problems. Prerequisite: course 100. 3 s.h.

ASSISTANT PROFESSOR MILES

**282. Differential Equations of Mathematical Physics.**—Hamilton-Jacobi equation, heat equation, wave equation, telegraphic equation, Schrödinger's equation. Prerequisite: course 100. 3 s.h.  
 DR. DRESSEL

**283. Fourier Series and Spherical Harmonics.**—Fourier series and integral, Legendre polynomials, spherical harmonics, Bessel functions. Applications to mathematical physics. (Formerly 280.) Prerequisite: course 100. 3 s.h.

[Not offered in 1938-39]

**284. Vector Analysis.**—Vectors in three-dimensional Euclidean space with applications to physics; introduction to tensor analysis. Prerequisite: course 100. 3 s.h.

[Not offered in 1938-39]

**287. Mathematical Logic.**—Boole-Schroeder algebra of logic, system of Principia Mathematica, strict and material implication. 3 s.h.

[Not offered in 1938-39]

**288. Foundations of Mathematics.**—Postulates for groups, fields, rings, Boolean algebras. 3 s.h.

[Not offered in 1938-39]

**291-292. Theory of Functions.**—Fundamental concepts in the theory of functions of real and complex variables. Limits, continuous functions, Riemann integrals, implicit functions, power series, double series, linear transformations, elementary functions, Cauchy's theorem and its applications, entire functions, residues, Riemann surfaces, conformal mapping. Prerequisite: course 140. 6 s.h.

#### FOR GRADUATES

**325-326. Real Variable.**—The number system; theory of sets; transfinite numbers; Baire classes; Lebesgue, Stieltjes, Denjoy integrals and their applications; linear operations. Prerequisite: course 291-292. 6 s.h.

**331-332. Complex Variable.**—Analytic continuation; conformal mapping and its applications; univalent functions; meromorphic functions; analytic functions of several complex variables. (Formerly 330-331.) Prerequisite: course 291-292. 6 s.h.

[Not offered in 1938-39]

**333-334. Analytic Theory of Numbers.**—Distribution of primes; primes in an arithmetic progression; Waring and Goldbach problems. Prerequisite: course 291-292. 6 s.h.

[Not offered in 1938-39]

**335-336. Infinite Series.**—Criteria for convergence, algebraic and functional combination of series, infinite products, divergent series. Prerequisite: course 139-140. **6 s.h.**

[Not offered in 1938-39]

**337-338. Existence Theorems.**—Systems of partial differential equations; Pfaffian systems; theorems of Cauchy, Riquier, and Cartan; singular integral varieties. Prerequisite: course 291-292. **6 s.h.**

[Not offered in 1938-39]

**341-342. Integral Equations.**—Volterra and Fredholm integral equations; application to boundary problems of differential equations. (Formerly 340-341.) Prerequisites: courses 131 and 139-140. **6 s.h.**

[Not offered in 1938-39]

**343-344. Ordinary Differential Equations.**—Solution by separation of variables, exact differentials, integrating factors, solution in series, Cauchy's existence theorem, linear differential systems, singular points, partial differential equations equivalent to ordinary systems. (Formerly 342-343.) Prerequisite: course 291-292. **6 s.h.**

PROFESSOR THOMAS

**345-346. Calculus of Variations.**—Methods of Euler, Jacobi, Weierstrass, and Bolza. Prerequisites: courses 131 and 291-292. **6 s.h.**

[Not offered in 1938-39]

ASSISTANT PROFESSOR HICKSON

**347-348. Elliptic Functions.**—Weierstrass, Jacobi, and theta functions; applications to the theory of numbers. Prerequisite: course 291-292. **6 s.h.**

[Not offered in 1938-39]

**351-352. Differential Geometry.**—Curves and surfaces in three-dimensional Euclidean space; applicability, differential parameters; Riemannian geometry of  $n$ -space. (Formerly 350-351.) Prerequisite: course 291-292. **6 s.h.**

[Not offered in 1938-39]

**353-354. Trigonometric Series.**—Detailed, analytic study of trigonometric, particularly Fourier, series; related topics in Lebesgue integrals and complex variable. Prerequisite: course 325-326. **6 s.h.**

[Not offered in 1938-39]

ASSOCIATE PROFESSOR GERGEN

**371-372. Topology.**—Topological spaces, separation axioms, bases, metrization theorems, Euclidean spaces. Algebraic theory of complexes, homology groups and their invariance, theory of manifolds and their duality relations. Prerequisite: course 291-292. **6 s.h.**

ASSISTANT PROFESSOR ROBERTS

**382. Potential Theory.**—Properties of harmonic functions. Existence theorems for boundary value problems. Potentials of general mass distribution. (Formerly 380-381.) Prerequisites: courses 281 and 325-326. **6 s.h.**

[Not offered in 1938-39]

## PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES-303 SCHOOL OF RELIGION; PROFESSORS GILBERT, SMITH,\* AND STERN;† ASSOCIATE PROFESSOR MORGAN; ASSISTANT PROFESSOR LEONARD; AND DR. MCLARTY

FOR SENIORS AND GRADUATES

**201-202. The Philosophy of Art.**—Study of the various phases of the aesthetic experience and forms of beauty with analysis of examples. Particular attention will be given to recent writers on aesthetics. **6 s.h. (E)**

PROFESSOR GILBERT

**203. The Philosophy of Conduct.**—A critical study of the fundamental problems of ethics. **3 s.h.**

ASSOCIATE PROFESSOR MORGAN

\* On leave, first semester, 1938-39.

† Deceased, March 27, 1938.

**204. Christian Ethics.**—A historical and systematic study of Christian conceptions of the moral life and its problems. 3 s.h. PROFESSOR SMITH

**205. The Philosophy of History.**—An inquiry into the logic and methodology of the knowledge of history, and into the metaphysical implications of history. 3 s.h. PROFESSOR WIDGERY

**206. Modern Political Theory.**—3 s.h. Political Science 224.

[Not offered in 1938-39]

PROFESSOR WILSON

**207. Political Thought to the Seventeenth Century.**—3 s.h. Political Science 223.

[Not offered in 1938-39]

PROFESSOR WILSON

**208. Political Philosophy.**—A critical investigation of the bases of political authority and of the ideals of political organization, with reference to prevalent political systems. 3 s.h. ASSOCIATE PROFESSOR MORGAN

**209-210. The Philosophy of Religion.**—A critical consideration of the data of empirical religion and the constructive development of modern philosophy of religion. 6 s.h. PROFESSOR WIDGERY

[Not offered in 1938-39]

**212. Psychology of Belief.**—2 s.h. Psychology 228. PROFESSOR LUNDHOLM

**213-214. History of Aesthetics.**—The tracing of the historical solutions of fundamental problems, such as the nature of imitation, symbolism, the ugly, the sublime, and the comic, the relation of art to nature, to morals, and to economics, the relation of the particular arts to each other, the standard of taste. 6 s.h. (E)

[Not offered in 1938-39]

PROFESSOR GILBERT

**215-216. Plato.**—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h. Greek 209-210. ASSISTANT PROFESSOR WAY

**217. The Philosophy of Aristotle.**—Prerequisite: 105. 3 s.h.

[Not offered in 1938-39]

DR. McLARTY

**219-220. The Age of the Renaissance.**—6 s.h. History 221-222.

[Not offered in 1938-39]

ASSOCIATE PROFESSOR NELSON

**222. Philosophical and Psychological Problems of Critical Personalism.**—2 s.h. Psychology 222. PROFESSOR STERN\*

[Not offered in 1938-39]

**223. Contemporary Philosophy.**—A study of the leading philosophical movements in Europe and America in the last fifty years. 3 s.h.

PROFESSOR WIDGERY

**226. The History of Ethics.**—Theories of morality from Socrates to the present time. 3 s.h. ASSOCIATE PROFESSOR MORGAN

[Not offered in 1938-39]

**227. Foundations of Mathematics.**—3 s.h. Mathematics 288.

[Not offered in 1938-39]

ASSOCIATE PROFESSOR CARLITZ

**228. Mathematical Logic.**—3 s.h. Mathematics 287.

[Not offered in 1938-39]

ASSOCIATE PROFESSOR CARLITZ

**229-230. Contemporary Physics.**—6 s.h. Physics 213-214.

ASSISTANT PROFESSOR CONSTANT

**231-232. Philosophy of Science.**—A historical and critical survey of the relations of natural science to general philosophy.

ASSISTANT PROFESSOR LEONARD

**234. Introduction to the Philosophy of Education.**—3 s.h. Education 200.

[Not offered in 1938-39]

PROFESSOR HOLTON

\* Deceased, March 27, 1938.

236. Oriental Philosophy I. Chinese Philosophy.—3 s.h.

ACTING PROFESSOR DUBS

238. Oriental Philosophy II. Indian Philosophy.—3 s.h.

PROFESSOR WIDGERY

241. Logic.—The characteristic structure of a logical system. Forms of propositions and arguments. Logical relations of propositions. Levels of analysis. 3 s.h.

ASSISTANT PROFESSOR LEONARD

242. Scientific Methodology.—A survey of the methods used in the different branches of the natural and social sciences in seeking and testing knowledge. 3 s.h.

ASSISTANT PROFESSOR LEONARD

244. European Thought in the Latter Half of the Nineteenth Century, with Special Reference to Nietzsche.—Studies in the major trends of intellectual life of the period, focused around the work of a representative thinker. Prerequisite: 6 hours; admission otherwise by permission of the instructor. A reading knowledge of German is desirable. 3 s.h.

ASSOCIATE PROFESSOR MORGAN

- 245-246. Philosophical Foundations of Religious Belief.—6 s.h.

ACTING PROFESSOR DUBS

248. Philosophy of Values.—2 s.h.

PROFESSOR STERN\*

#### FOR GRADUATES

301-302. Seminar in Philosophy.—For the discussion of special problems, chiefly metaphysical. Two hours a week throughout the year. Time to be arranged. 4 s.h.

PROFESSOR WIDGERY

305. Seminar: Spinoza.—Detailed study of Spinoza's works showing the development of his own thought and his relation to his contemporaries. 3 s.h.

PROFESSOR GILBERT

307. Seminar: Kant.

ASSOCIATE PROFESSOR MORGAN

[Not offered in 1938-39]

308. Seminar: Hegel.—A study of a selection of the texts together with recent interpretations. 3 s.h.

PROFESSOR GILBERT

[Not offered in 1938-39]

309. Seminar for German Readings in Psychology and Philosophy.—2 s.h. Psychology 311.

PROFESSOR STERN\*

310. Seminar: Logical Positivism.—2 s.h. ASSISTANT PROFESSOR LEONARD

311. Historical and Philosophical Zoology.—2 s.h. Zoology 341.

PROFESSOR HARGITT

- 313-314. Seminar: Theories of Self.—4 s.h. Religion 377-378.

PROFESSOR HICKMAN

315. Seminar: Leibnitz.—2 s.h.

ACTING PROFESSOR DUBS

[Not offered in 1938-39]

316. History of Social Philosophy.—3 s.h. Sociology 320.

PROFESSORS ELLWOOD AND JENSEN

317. Theology in Ancient and Medieval Christianity.—Prerequisite: Christian Doctrine 321-322. 3 s.h. Religion 323.

PROFESSOR ROWE

318. Theology in Modern Christianity.—Prerequisite: Christian Doctrine 321-322. 3 s.h. Religion 324.

PROFESSOR ROWE

\* Deceased, March 27, 1938.

319-320. **Religious Thought in the Rise of American Culture.**—Prerequisite: Religious Education 261 or its equivalent. 3 s.h. Religion 363-364.  
[Not offered in 1938-39] PROFESSOR SMITH

322. **Seminar in Philosophy of Religious Education.**—Prerequisite: Religious Education 261 or its equivalent. 2 s.h. Religion 366.  
PROFESSOR SMITH

323. **Seminar: Bushnell, Channing, Emerson.**—2 s.h. PROFESSOR SMITH  
[Not offered in 1938-39]

325. **Seminar: Locke, Berkeley, Hume.**—2 s.h.  
ASSISTANT PROFESSOR LEONARD

## PHYSICS

PROFESSOR NIELSEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—101 PHYSICS BUILDING; PROFESSORS EDWARDS, HATLEY, NORDHEIM, AND SPONER;  
ASSISTANT PROFESSORS CONSTANT AND MOUZON; DR. BONNER

The Department of Physics makes provision for both beginning and advanced graduate students. The courses are designed to give a broad basic foundation in classical and quantum physics.

All graduate students will first be expected to acquire a thorough knowledge of the various branches of classical physics as well as some familiarity with modern physics and sufficient laboratory training. They will be required to take such course work in the 200 group of studies as may be necessary to complete this foundation.

To complete their course requirements in physics graduate students will take such advanced courses as will best help them and fit them for the type of work in which they plan to specialize and undertake research. The character of the work in other related departments will also depend upon the field of subsequent specialization and research.

Since a reading knowledge of French and German is highly desirable, students are urged to satisfy the language requirements in both as early as possible.

The research work of the Department is largely confined to the experimental and theoretical fields of nuclear physics and molecular structure. Experimental work is also being done in magnetism.

### FOR SENIORS AND GRADUATES

203-204. **Analytical Mechanics.**—Geometry of motion; kinematics of a particle and of a rigid body; statics; relative motion; general principles of mechanics. 6 s.h. ASSISTANT PROFESSOR MOUZON

205-206. **Physical Optics.**—This course deals with interference diffraction, polarization, absorption, dispersion; in general it will cover those topics treated in a text such as Wood's *Physical Optics*. Two lectures and one three-hour laboratory period per week. 6 s.h. PROFESSOR HATLEY

211. **History of Physics.**—A rapid review of the fundamental laws of physics developed from the historical point of view. 2 s.h.

PROFESSOR EDWARDS

213-214. **Contemporary Physics.**—A course which covers in a descriptive manner the fundamental concepts and the experimental basis of modern theories of the structure of matter. 6 s.h. ASSISTANT PROFESSOR CONSTANT

215-216. **Atomic Physics Laboratory.**—Some of the more important experiments which form the basis of modern atomic theory. Special emphasis is placed on experimental technique, valuable in original physical investigations. 2 s.h. PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON



**217-218. Advanced General Physics Laboratory.**—Exact measurements involving the fields of mechanics, electrical measurements, heat and pyrometry. 2 s.h. PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

**221-222. Introduction to Theoretical Physics.**—Lectures and problems on the fundamental principles and mathematical theory of the general field of physics, constituting a thorough foundation for subsequent specialization and more intensive study. 6 s.h. ASSISTANT PROFESSOR CONSTANT

#### FOR GRADUATES

**303. Thermodynamics.**—Fundamental laws of thermodynamics and their applications to physics and chemistry. Offered jointly by the Department of Physics and Chemistry. 3 s.h. PROFESSORS GROSS AND SPONER

**304. Kinetic Theory of Matter.**—Gas laws; Maxwell's distribution law; mean free path; viscosity; heat conductivity; diffusion; phenomena in gases at low pressure; specific heat; entropy; probability and reaction kinetics. 3 s.h. PROFESSOR SPONER

**307. Theory of Electricity and Magnetism.**—An advanced theoretical course based on Jean's *Electricity and Magnetism*, covering the mathematical theory of electrostatics, magnetostatics, current theory and electro-magnetism, and illustrated by numerous problems. Particular attention is given to electrostatic problems and methods of solution of Laplace's equation. Prerequisite: Physics 221-222. 3 s.h. ASSISTANT PROFESSOR CONSTANT

**311. Conduction of Electricity through Gases.**—Electron theory of conduction through gases; spark and glow discharges; electric arcs; excitation of spectra; energy levels; radioactive radiations. 3 s.h. PROFESSOR EDWARDS

**315-316. Principles of Quantum Theory.**—The origin and fundamental concepts of the quantum theories. The mechanics and principles of the Bohr-Sommerfeld theory are followed by those of the more recent theories of wave and matrix mechanics, as developed by De Broglie, Schrödinger, Heisenberg, Born, Jordan, and Dirac. 6 s.h. PROFESSOR NORDHEIM  
[Not offered in 1938-39]

**317. Advanced Dynamics.**—A course dealing with the more advanced phases of dynamics and considering such topics as equations of Lagrange and Hamilton, generalized coordinates, oscillatory and cyclic motion, criteria of equilibrium, and the Newtonian potential theory. 3 s.h.  
[Not offered in 1938-39]

**319. Electrodynamics.**—Maxwell's equation. Electromagnetic oscillations and waves. Electromagnetic theory of light. 3 s.h. PROFESSOR NORDHEIM

**320. Theory of Electrons.**—Crystal optics, theory of dispersion, conductivity and magnetism. Optics of moving bodies. Prerequisite: Physics 319. 3 s.h. PROFESSOR NORDHEIM

**323. Theory of Atomic Spectra.**—Excitation of spectra, computation of wave lengths from photographs of spectra, study of the structure of atomic spectra with applications. 3 s.h. PROFESSOR SPONER  
[Not offered in 1938-39]

**324. Theory of Molecular Spectra.**—A study of the structure of molecular spectra with applications. 3 s.h. PROFESSOR SPONER  
[Not offered in 1938-39]

**340. Structure of Matter.**—Selected topics dealing with the constitution of matter such as crystal structure and X-rays, the solid state and nuclear physics. 3 s.h. PROFESSORS NORDHEIM AND SPONER

**341-342. Advanced Topics in Physics.**—Treatment of more special fields in physics. 2-6 s.h. PROFESSORS SPONER AND NORDHEIM  
The fields taken up in the courses 340-342 will vary from year to year.

343-344. **Radioactivity and Nuclear Structure.**—Discovery of radioactivity, properties of Alpha, Beta and Gamma rays, successive transformations, artificial transmutations and nuclear structure. 6 s.h. PROFESSOR NIELSEN

345-346. **Colloquium.**—Discussion of recent advances in physics. No credit. STAFF

351-352. **Seminar.**—A series of weekly discussions on topics related to the research projects under investigation in the department. 2 s.h. STAFF

353-354. **Thesis Seminar.**—Students who are properly qualified may carry on research work under the direction of members of the Staff. 6 s.h. STAFF

#### RELATED COURSES IN OTHER DEPARTMENTS

##### CHEMISTRY

261-262. **Physical Chemistry.**—6 s.h.

PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

363-364. **Advanced Physical Chemistry.**—6 s.h.

PROFESSORS GROSS AND VOSBURGH, ASSISTANT PROFESSOR SAYLOR, DRs. HULL AND HOBBS  
[Not offered in 1938-39]

##### ELECTRICAL ENGINEERING

261. **Communication Engineering, Audio Frequency.**—3 s.h.

PROFESSOR SEELEY

262. **Communication Engineering, Radio Frequency.**—Prerequisite: course 261. 4 s.h. PROFESSOR SEELEY

##### MATHEMATICS

281. **Elementary Potential Theory.**—3 s.h. ASSISTANT PROFESSOR MILES

282. **Differential Equations of Mathematical Physics.**—3 s.h. DR. DRESSSEL

283. **Fourier's Series and Spherical Harmonics.**—3 s.h. \_\_\_\_\_

[Not offered in 1938-39]

284. **Vector Analysis.**—3 s.h. \_\_\_\_\_

[Not offered in 1938-39]

#### POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—311 LIBRARY;

PROFESSORS RANKIN AND VON BECKERATH; ASSOCIATE

PROFESSOR COLE; DR. LINEBARGER

##### FOR SENIORS AND GRADUATES

207. **American Constitutional Law and Theory.**—A study of leading principles of American Government, as developed through judicial interpretation of the Constitution. 3 s.h. PROFESSOR WILSON

209. **State and Local Government in the United States.**—A study of the historical development of state and local governments, their present organization, their relation to each other and to the federal government. 3 s.h.

PROFESSOR RANKIN

211. **Political Institutions of the Far East.**—A study of the governmental systems of Japan, Korea, and China from the earliest times to the present. 3 s.h.

DR. LINEBARGER

212. **International Politics of the Far East.**—A study of changing power relationships in the Orient since the arrival of the Europeans. 3 s.h.

DR. LINEBARGER

**223. Political Thought to the Seventeenth Century.**—A survey of political thought from the time of Plato to the close of the sixteenth century. 3 s.h.  
[Not offered in 1938-39] PROFESSOR WILSON

**224. Modern Political Theory.**—Political theories of the seventeenth and eighteenth centuries, and of the first half of the nineteenth, with a study of their influence upon modern political institutions. 3 s.h. PROFESSOR WILSON  
[Not offered in 1938-39]

**225-226. Comparative Government.**—A comparative study of modern political institutions, with special reference to bureaucracy, federalism, fascism, dictatorship, constitutions, representation, parliamentarism, and separation of powers. 6 s.h. ASSOCIATE PROFESSOR COLE

**227-228. International Law and International Organization.**—Elements of international law, and a study of certain international organizations from the point of view of their significance for international law. 6 s.h.

PROFESSOR WILSON

**229. Recent and Contemporary Political Theory.**—A study of the more significant contributions to the theory of government from 1850 to the present. 3 s.h. ASSOCIATE PROFESSOR COLE

**230. American Political Institutions.**—A study of the formation and development of institutions of the national government in the United States, with historical and analytical treatment. 3 s.h. PROFESSOR RANKIN

**241-242. Principles of Public Administration.**—A study of governmental techniques, personnel and financial administration, and administrative law. 6 s.h.

**244. Problems in Public Administration.**—A study of selected phases of public administration, including budgetary, taxation and accounting methods. 3 s.h.

**271. Socio-Politics and Capitalism.**—Western European and American social policy in legislation from the early nineteenth century to the World War, and socio-political developments in the post-War world. 3 s.h.

PROFESSOR VON BECKERATH

**291. Municipal Government.**—A study of general problems relating to the structural system and activities of municipalities in the United States. 3 s.h. PROFESSOR RANKIN

**292. Municipal Administration.**—A study of principles and methods of municipal administration in the United States. 3 s.h. PROFESSOR RANKIN  
[Not offered in 1938-39]

#### FOR GRADUATES

**310. Seminar in State Government.**—Open to students who have completed course 209 or its equivalent. 3 s.h. PROFESSOR RANKIN

**325. Seminar in Comparative Government.**—Open to students who have completed course 225-226 or its equivalent. 3 s.h. ASSOCIATE PROFESSOR COLE  
[Not offered in 1938-39]

**328. Seminar in International Law.**—Open to students who have completed course 227-228 or its equivalent, or who may be taking that course. 3 s.h. PROFESSOR WILSON

#### RELATED COURSES IN OTHER DEPARTMENTS

**Economics 216. Economic Functions of the State.**—3 s.h.

PROFESSOR HOOVER

**Economics 230. Public Debts in the United States.**—3 s.h.

ASSISTANT PROFESSOR RATCHFORD

- Economics 265. International Trade and Tariff Policies.—3 s.h.  
 PROFESSOR VON BECKERATH
- Economics 266. International Finance.—3 s.h. PROFESSOR HAMILTON
- History 215-216. History of the Foreign Relations of the United States.—  
 6 s.h. ASSOCIATE PROFESSOR CLYDE  
 [Not offered in 1938-39]
- History 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
- Philosophy 208. Political Philosophy.—3 s.h.  
 ASSOCIATE PROFESSOR MORGAN
- Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN  
 [Not offered in 1938-39]
- Readings in Jurisprudence.—Offered in the School of Law.  
 PROFESSOR FULLER
- Roman Law.—Offered in the School of Law. PROFESSOR FULLER

### PSYCHOLOGY

PROFESSOR MCDUGALL, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—201 NEW  
 SCIENCE BUILDING; PROFESSORS LUNDHOLM, RHINE, AND STERN;\* ASSO-  
 CIATE PROFESSOR ZENER; ASSISTANT PROFESSOR ADAMS

The aim of the Department is to provide opportunity for study along broad and varied lines, both in theoretical and experimental work in the field of psychology. The scope of interest represented covers the principal lines of subject matter dealing with child, adult, and animal psychology. An unusual variety of theoretical viewpoints is represented on the Staff. The emphasis in the presentation of courses will be, however, less upon quantity and extent than upon balance and selective representation.

In the direction of research done by graduate students, two general aims will be kept in mind; that of training and that of fruitful achievement. The research carried out for the Master's thesis will be primarily directed with the purpose of training the student. For the Ph.D. thesis, however, there will be a primary emphasis upon the importance of the research and there will be expectation of original contribution.

It is expected that the graduate students will have entered with preparation equivalent to the undergraduate courses offered by this Department. A reading knowledge of French and German is desirable from the beginning and in no case should the acquisition of this be postponed later than the beginning of the second year.

No limitation is laid down as to the departments in which it is possible to minor. In doing graduate study in psychology, those branches of study which are looked upon with most favor, however, are education, sociology, zoology, physiology, and philosophy.

Encouragement is given to originality and freedom in thinking in the individual research of the student. There is wide tolerance of subject matter for research.

#### FOR SENIORS AND GRADUATES

201. Social Psychology.—2 s.h. PROFESSOR MCDUGALL  
 [Not offered in 1938-39]
202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM
204. Psychology of Motivation.—3 s.h. ASSOCIATE PROFESSOR ZENER
205. General Psychology (Activity, Feeling, Willing).—2 s.h.  
 PROFESSOR STERN\*

\* Deceased, March 27, 1938.

207. **Experimental Psychology.**—Experimental and theoretical contributions to the psychology of cognitive processes. 3 s.h.  
ASSOCIATE PROFESSOR ZENER  
[In 1938-39 offered in the spring semester only]
209. **Advanced Laboratory Methods in Psychology, with Lectures.**—4 s.h.  
ASSOCIATE PROFESSOR ZENER
211. **Neurological Foundations of Behavior: A Comparative Study of the Structure and Function of the Nervous System in Relation to Behavior.**—4 s.h.  
ASSOCIATE PROFESSOR ZENER  
[Not offered in 1938-39]
212. **Developmental Psychology (Psychology of Childhood and Youth).**—3 s.h.  
PROFESSOR STERN\*
216. **Seminar in Comparative Psychology.**—2 or 3 s.h.  
ASSISTANT PROFESSOR ADAMS
217. **Gestalt Theory.**—3 s.h.  
ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]
219. **History of Psychology.**—2 s.h.  
PROFESSOR McDUGALL
222. **Philosophical and Psychological Problems of Critical Personalism.**—2 s.h.  
PROFESSOR STERN\*  
[Not offered in 1938-39]
223. **Abnormal Psychology.**—3 s.h.  
PROFESSOR LUNDHOLM
226. **Contemporary Schools of Psychology.**—Graduates and Seniors with permission of instructor. 3 s.h.  
ASSOCIATE PROFESSOR ZENER  
[Not offered in 1938-39]
228. **Psychology of Belief.**—2 s.h.  
PROFESSOR LUNDHOLM
229. **Seminar in Child Psychology.**—2 or 3 s.h.  
PROFESSOR STERN\*
230. **Seminar in Personalistic Psychology.**—2 or 3 s.h.  
PROFESSOR STERN\*
- 231-232. **Introduction to Research.**—Open to Seniors after consultation with the staff member supervising the research. 2 or 3 s.h.  
PROFESSORS McDUGALL, LUNDHOLM, RHINE AND STERN\*  
ASSOCIATE PROFESSOR ZENER; ASSISTANT PROFESSOR ADAMS
233. **Social Psychology of Value and Valuation.**—3 s.h.  
PROFESSOR McDUGALL

FOR GRADUATES

302. **Seminar.**—2 or 3 s.h. (E)  
PROFESSOR LUNDHOLM  
[Not offered in 1938-39]
- 303-304. **Research.**—2 or 3 s.h.  
PROFESSORS McDUGALL, LUNDHOLM, RHINE AND STERN\*  
ASSOCIATE PROFESSOR ZENER; ASSISTANT PROFESSOR ADAMS
305. **Seminar.**—2 or 3 s.h.  
PROFESSOR McDUGALL  
[Not offered in 1938-39]
306. **Seminar in Child Psychology.**—2 or 3 s.h.  
ASSISTANT PROFESSOR ADAMS  
[In 1938-39 offered in the fall semester only]
307. **Seminar in Psychology of Personality.**—3 s.h.  
PROFESSOR RHINE  
[Not offered in 1938-39]
308. **Seminar in Child Psychology.**  
PROFESSOR STERN\*  
[Not offered in 1938-39]

\* Deceased, March 27, 1938.



309. **Theory of Learning.**—3 s.h. ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]
311. **Seminar.**—Readings in German for Philosophers and Psychologists.—  
2 s.h. PROFESSOR STERN\*
- 313-314. **Seminar in Parapsychology.**—6 s.h. (E) PROFESSOR RHINE
315. **Child Psychology.**—3 s.h. ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]

## RELIGION

Graduate work in the field of religion is available in the following departments: Old Testament, New Testament, Christian Doctrine, Church History, Religious Education, Psychology of Religion, History of Religion, Philosophy, and Sociology. Students interested in graduate work in these fields are referred to the *Bulletin of the School of Religion* of Duke University. All the courses listed there, except those of a professional character, may be offered for credit toward the degrees of the Graduate School. A number of these courses will be found listed in this bulletin also under the headings of related departments.

It is possible to secure work leading to the degree of Doctor of Philosophy in a number of these fields. For this degree the departmental groupings of courses are ignored and a program of work is planned for each candidate in which the total resources of the Graduate School will be utilized in so far as they relate to the student's needs and special subject of investigation.

## ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN—107 GRAY BUILDING; PROFESSOR JORDAN,<sup>†</sup> DIRECTOR OF GRADUATE STUDIES—106 GRAY BUILDING; PROFESSOR COWPER;  
ASSOCIATE PROFESSORS LUNDEBERG AND WALTON

To be eligible for graduate study in this Department, the student should have credit for four years of college work in the chosen language; or eighteen hours beyond the conventional two units offered at entrance to college. In addition to this minimum requirement, one semester of composition and grammar review is highly desirable.

It is recommended that candidates for the Master's degree take a second Romance Language for the minor subject.

A candidate for the Ph.D. degree should be equipped to follow graduate courses in a second Romance Language. Some training in Romance Linguistics will be required for this degree; amount to be determined by the Department upon consideration of the student's preparation in the field.

## FRENCH

## FOR SENIORS AND GRADUATES

215-216. **The Modern French Novel.**—A survey of the novel form from the seventeenth to the twentieth centuries, with particular attention to the analysis of fundamental literary tendencies: classicism, rationalism, romanticism, and realism. 6 s.h. PROFESSOR JORDAN

217. **French Phonetics.**—French sounds and French spelling; pronunciation drills; exercises in phonetic transcription and dictation; aural comprehension. 3 s.h. PROFESSOR WEBB

218. **Materials and Methods.**—History of the teaching of French; methods; the course of study; analysis and criticism of representative texts; tests and examinations; objectives; in the light of teaching conditions, equipment, and future application. 3 s.h. PROFESSOR WEBB

\* Deceased, March 27, 1938.

<sup>†</sup> Absent on leave, second semester, 1938-39.

219. **Old French.**—An introduction to the Old French language and literature. 3 s.h. PROFESSOR COWPER  
[Not offered in 1938-39]

220. **Old French.**—Types of Old French literature. 3 s.h. PROFESSOR COWPER  
[Not offered in 1938-39]

227. **French Poetry since Théophile Gautier.**—3 s.h. ASSOCIATE PROFESSOR WALTON  
[Not offered in 1938-39]

232. **Rousseau and the Beginnings of Romanticism.**—3 s.h. PROFESSOR COWPER

233. **Main Currents of Modern French Literature.**—A survey of the principal literary tendencies from the seventeenth to the nineteenth centuries. Selected illustrative readings from leading authors. *Second semester.* 3 s.h. ASSOCIATE PROFESSOR WALTON

## FOR GRADUATES

317. **History of the French Language.**—3 s.h. PROFESSOR COWPER

- 323-324. **Realism and Naturalism.**—6 s.h. PROFESSOR JORDAN  
[Not offered in 1938-39]

- 325-326. **French Literature in the Sixteenth Century.**—6 s.h. ASSOCIATE PROFESSOR WALTON  
[Not offered in 1938-39]

328. **Anatole France.**—3 s.h. ASSOCIATE PROFESSOR WALTON  
[Not offered in 1938-39]

329. **History of French Civilization.**—3 s.h. PROFESSOR WEBB  
[Not offered in 1938-39]

330. **Victor Hugo.**—3 s.h. PROFESSOR WEBB  
[Not offered in 1938-39]

331. **Diderot and the Encyclopédie.**—3 s.h. PROFESSOR COWPER  
[Not offered in 1938-39]

- 333-334. **Contemporary French Literature.**—6 s.h. PROFESSOR JORDAN  
[Not offered in 1938-39]

350. **Nineteenth Century French Criticism.**—*First semester.* 3 s.h. PROFESSOR JORDAN

## SPANISH

## FOR SENIORS AND GRADUATES

- 261-262. **The Modern Spanish Novel.**—6 s.h. ASSOCIATE PROFESSOR LUNDEBERG

265. **Golden Age Literature: Cervantes.**—The *Novelas ejemplares*: analytic study of the tales, their sources, style, literary importance, and influence on world literature. 3 s.h. ASSOCIATE PROFESSOR LUNDEBERG  
[Not offered in 1938-39]

266. **Golden Age Literature: The Don Juan Theme.**—Study of representative Don Juan plays of the Golden Age; special reference to the use of this motif by later writers in Spain and abroad. 3 s.h. ASSOCIATE PROFESSOR LUNDEBERG  
[Not offered in 1938-39]

## SOCIOLOGY

PROFESSOR ELLWOOD,\* CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES-303 GRAY BUILDING; PROFESSORS HART AND JENSEN; ASSISTANT PROFESSOR THOMPSON

**205. Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. Prerequisite: course 91-92 or 101. 3 s.h. PROFESSOR JENSEN

**206. Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. Prerequisite: course 91-92 or 101. 3 s.h. PROFESSOR JENSEN

**212. Child Welfare.**—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. Prerequisite: course 91-92 or 101. 3 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]

**213. Constructive Social Policies.**—An intensive study of the theories and legislation dealing with such problems as compensation, vocational re-education, and other methods of social insurance and social improvement. 2 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]

**219. Urban Sociology.**—This course studies the function of the city in the larger community which it nucleates both as market and as industrial center. More detailed attention, however, is given to the inner life and problems of the city. Prerequisite: course 91-92 or 101. 3 s.h. ASSISTANT PROFESSOR THOMPSON

**220. Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the family farm, the peasant village, the ranch, and the plantation. In this course special attention is given to the plantation and the rural problems of the South. Prerequisite: course 91-92 or 101. 3 s.h. ASSISTANT PROFESSOR THOMPSON

**227. Emigration and Immigration.**—A study of territorial movements of population with especial reference to Europe and America. Causes and extent of migration; its effect upon American and European society; origin and characteristics of immigrant groups and their organization in the New World; problems, agencies and processes of assimilation. Prerequisite: course 91-92 or 101. 3 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]

**231. General Anthropology.**—A study of the origin and evolution of man and of the different races of mankind. The prehistoric human types; the principles of ethnology; the Negro, Mongolian, American, and Caucasian races. (Formerly 217.) 3 s.h. PROFESSOR HART

\* Absent on leave, second semester, 1938-39.

**232. Cultural Anthropology.**—A study of social origins and of the earliest stages of cultural evolution: the stone and metal ages; the origins of industry, language, magic, religion, morals, science, art, and social organization in the family, horde, clan, and tribe. (Formerly 218.) 3 s.h.

PROFESSOR HART

**233. The World Crisis in the Light of Social Anthropology.**—A course on the problem of present social changes in the light of the trends of human culture and of the dynamic processes through which men may take a part in determining the future of civilization. Prerequisite: Courses in General Anthropology and in General Sociology, or equivalent. 3 s.h.

PROFESSOR HART

**234. Social Ethics.**—An attempt to measure as accurately as possible the qualities needed in social leaders—particularly the qualities having to do with the capacity for creative co-operation and insight—and to study the most promising methods available for cultivating those qualities. Especially designed for the students in the School of Religion. 3 s.h.

PROFESSOR HART

**236. The American Indian.**—The origin, history, and culture of the American Indian stocks, with especial reference to those of North America. 3 s.h.

[Not offered in 1938-39]

**242. Marriage and the Family.**—An analysis of contemporary marriage and family experience with emphasis on its functions, problems, resources, and values. Prerequisite for undergraduate credit: Sociology 91-92 or 101. 2 s.h.

PROFESSOR GROVES (U. N. C.)

FOR GRADUATES

**317. Seminar in Anthropology.**—A seminar for students who wish to pursue individual studies in racial or cultural anthropology. 1 to 3 s.h.

PROFESSOR HART

**318. Religion and the World Crisis.**—An inquiry into the bearings of religion upon past social evolution and upon the possible future development of a more ideal social order. Prerequisite: course 231. 3 s.h.

PROFESSOR HART

**319. Principles of Sociology.**—A critical study of sociological theory. The sociological theories of recent writers will be critically examined with a view to laying the foundation for a constructive theory of the social life in modern biology and psychology. Discussions and papers by the class. 3 s.h.

PROFESSOR ELLWOOD

**320. History of Social Philosophy.**—Lectures on the development of social thought from Aristotle to the present: the social philosophies of Plato, Aristotle, St. Augustine, Thomas Aquinas, Machiavelli, Bodin, Hobbes, Locke, Vico, Montesquieu, Rousseau, Condorcet, and the sociological systems of Comte, Spencer, Schaeffle, Lilienfeldt, Gumplowicz, Ratzenhofer, and Ward will, among others, be considered. A large amount of assigned reading will be required in this course. The student is advised to correlate this course with related courses in economics, history, political science, and philosophy. 3 s.h.

PROFESSORS ELLWOOD AND JENSEN

**322. Methods of Social Research.**—A study of the various methods of research and investigation that can be applied to the study of social phenomena. 3 s.h.

PROFESSOR JENSEN

[Not offered in 1938-39]

**330. Seminar.**—Research work upon special problems in sociology and social work. One hour each week throughout the year. 1 s.h. each semester.

PROFESSORS ELLWOOD, HART, AND JENSEN;

ASSISTANT PROFESSOR THOMPSON

340. Seminar.—Special problems in race relations, urban and rural life, and the sociology of the South generally. 3 s.h. *each semester*.

ASSISTANT PROFESSOR THOMPSON

350. Seminar in Applied Sociology.—Special research problems in social pathology, child welfare, criminology and related topics. 1 to 3 s.h. *each semester*.

PROFESSOR JENSEN

#### RELATED COURSES IN OTHER DEPARTMENTS

Economics 215. Economic Systems.—3 s.h.

PROFESSOR HOOVER

Economics 216. Economic Functions of the State.—3 s.h.

PROFESSOR HOOVER

Economics 218. Population Problems and the Standard of Living.—3 s.h.

PROFESSOR SPENGLER

Philosophy 205. Philosophy of History.—3 s.h.

PROFESSOR WIDGERY

Political Science 223. Political Thought to the Seventeenth Century.—3 s.h.

PROFESSOR WILSON

[Not offered in 1938-39]

Political Science 224. Modern Political Theory.—3 s.h.

[Not offered in 1938-39]

PROFESSOR WILSON

Psychology 201. Social Psychology.—2 s.h.

PROFESSOR McDUGALL

[Not offered in 1938-39]

#### ZOOLOGY

PROFESSOR PEARSE, CHAIRMAN—326 BIOLOGY BUILDING; PROFESSOR HARGITT, DIRECTOR OF GRADUATE STUDIES—219 BIOLOGY BUILDING; PROFESSORS CUNNINGHAM AND HALL; ASSOCIATE PROFESSOR GRAY

For admission to the A.M. degree candidates should have completed about twenty-four hours of course work in Zoology, distributed among various fields; at least one year each of Chemistry and Physics; and have attained some knowledge of French and German. Grades in zoology courses should average "good" (B). Work for the degree will require about eighteen hours in advanced courses in zoology, six hours in a minor field, preferably in a laboratory science or mathematics, and a thesis.

For admission to candidacy for the Ph.D. degree it is expected that twenty-four to thirty hours of zoology courses shall have been completed with an average grade of B; one year each of Botany, Chemistry, and Physics; and a reading knowledge of French and German attained. A knowledge of Organic Chemistry is desirable. Toward the end of the first year of residence a committee will be appointed for each candidate, which will review his preparation and set specific requirements which must be met to receive the degree. This program will include one or more graduate courses in each of the several fields of zoology; broad knowledge of science in general and of biology in particular, attained by wide reading; required major and minor courses, and research; and a satisfactory thesis which is the result of original work. The Department expects that at least a first draft of this thesis shall be complete by March 15 of the year in which the degree is to be granted. At least one year before the degree is to be conferred each candidate must pass an examination (usually oral) on the whole field of zoology, and the minor.

#### FOR SENIORS AND GRADUATES

204. Advanced Parasitology.—Lectures, conferences, readings and laboratory work, dealing with practical and theoretical matters relating to animal parasites. Offered in alternate years. (Formerly 304.) Prerequisite: Zoology 161. 3 or 4 s.h.

PROFESSOR PEARSE



**219-220. Special Problems.**—Students who have had proper training may carry on special work under direction of members of the department. (Not more than 4 hours credit may be obtained in one semester.) STAFF

**222. Entomology.**—Anatomy, physiology, embryology and classification of insects. Offered in alternate years. Prerequisite: one year of zoology. 4 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR GRAY

**224. Vertebrate Zoology.**—A study of the life histories, adaptations, ecology, and classification of vertebrate animals. Offered in alternate years. Prerequisite: Zoology 53. 4 s.h. ASSOCIATE PROFESSOR GRAY

**229. Endocrinology.**—The structure, physiology, and embryology of the endocrine glands. Lectures, reading assignments, and reports. Prerequisites: Zoology 53, 92. 3 or 4 s.h. PROFESSOR CUNNINGHAM

## FOR GRADUATES

**303. Ecology.**—Relation of animals to environment. Lectures, reading, reports, conferences; laboratory and field work. Offered in alternate years. 4 s.h. PROFESSOR PEARSE

**306. Advanced Ecology.**—Lectures, conferences, field work, and methods. Offered in alternate years. Prerequisite: Zoology 303. 4 s.h. PROFESSOR PEARSE

**321. General Physiology.**—Comparative study of functions in all animal groups, especially of vertebrates. Lectures, laboratory work, and conferences. 4 s.h. PROFESSOR HALL

**324. Advanced Physiology.**—Present-day problems in physiology, with laboratory projects, involving precise instrumental analyses. Lectures, conferences, and laboratory work. Prerequisite: Zoology 151 or 321. 4 s.h. PROFESSOR HALL

**327. Experimental Embryology.**—Lectures, assigned readings, and reports. Offered in alternate years. Prerequisites: Zoology 92, 151 or 321. 3 s.h.  
[Not offered in 1938-39] PROFESSOR CUNNINGHAM

**341. Historical and Philosophical Zoology.**—Readings and discussions. A critical study of the development of modern biological concepts and theories, their past and present significance. Offered in alternate years. 2 s.h. PROFESSOR HARGITT

**343. Cytology.**—The structure of the cell. Lectures, readings, reports, and laboratory work. Offered in alternate years. Prerequisites: Zoology 53, 92, 156 or equivalents. 4 s.h. PROFESSOR HARGITT  
[Not offered in 1938-39]

**351-352. Zoological Journal Club.**—A weekly meeting of graduate students and Faculty to hear reports and to discuss biological facts, theories, and problems. One hour a week throughout the year. Required of all graduate students who major in zoology. 2 s.h. STAFF

**353-354. Research.**—Students who have had proper training may carry on research under the direction of members of the Staff, in the following fields:

- |  |                          |
|--|--------------------------|
| (a) Embryology and Endocrinology.        | PROFESSOR CUNNINGHAM     |
| (b) Comparative and General Physiology.  | PROFESSOR HALL           |
| (c) Histology and Cytology.              | PROFESSOR HARGITT        |
| (e) Ecology, Parasitology, and Behavior. | PROFESSOR PEARSE         |
| (f) Vertebrate Zoology and Entomology.   | ASSOCIATE PROFESSOR GRAY |
- Hours and credits to be arranged.

355-356. **Seminar.**—Special seminar courses in particular fields are given by various professors when the number of students makes them desirable. Hours and credits to be arranged.

- \* (a) **Embryology and Endocrinology.** PROFESSOR CUNNINGHAM
- (b) **Comparative and General Physiology.** PROFESSOR HALL
- \* (c) **Histology and Cytology.** PROFESSOR HARGITT
- \* (c) **Ecology, Parasitology, and Behavior.** PROFESSOR PEARSE
- (f) **Vertebrate Zoology and Entomology.** ASSOCIATE PROFESSOR GRAY

\* [Not offered in 1938-39]

#### RELATED COURSES IN OTHER DEPARTMENTS

Courses such as the following should be considered as available for students in zoology:

- Botany 202. Genetics.**—4 s.h. DR. PERRY
- Botany 221. Structure and Classification of Fungi.**—4 s.h. PROFESSOR WOLF
- Botany 256. Field Ecology.**—4 s.h. ASSISTANT PROFESSOR OOSTING
- Botany 341. Methods in Plant Physiology.**—4 s.h. ASSISTANT PROFESSOR KRAMER
- Botany 342. Plant Microchemistry.**—2 s.h. ASSISTANT PROFESSOR ADDOMS
- Chemistry 260. Colloid Chemistry.**—3 s.h. PROFESSOR VOSBURGH, ASSISTANT PROFESSOR SAYLOR
- [Not offered in 1938-39]
- Chemistry 261-262. Physical and Electro Chemistry.**—6 s.h. PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS
- Physics 103. Electricity and Magnetism.**—(Undergraduate credit only.) 3 s.h. ASSISTANT PROFESSOR CONSTANT
- Physics 104. Electrical Measurements.**—(Undergraduate credit only.) 3 s.h. ASSISTANT PROFESSOR CONSTANT
- Physics 205-206. Physical Optics.**—6 s.h. PROFESSOR HATLEY
- Psychology 224. Laboratory Methods in Animal Psychology.**—3 s.h. [Not offered in 1938-39] ASSISTANT PROFESSOR ADAMS
- M221. Bacteriology and Immunology.**—4 s.h. DR. D. T. SMITH AND STAFF
- M323. Advanced Bacteriology and Immunology.**—8 s.h. DR. D. T. SMITH AND STAFF
- M241. General Biochemistry.**—6 s.h. DR. PERLZWEIG, DR. TAYLOR, AND STAFF
- M263. Physiology of Digestion, Metabolism, and Nutrition.**—2 s.h. DR. W. J. DANN, EADIE, AND F. M. BERNHEIM

#### COURSES IN THE MEDICAL SCHOOL OPEN TO GRADUATE STUDENTS

PROFESSORS EADIE, PERLZWEIG, D. T. SMITH, AND SWETT; ASSOCIATE PROFESSORS F. M. BERNHEIM, HETHERINGTON, AND MCCREA; ASSISTANT PROFESSORS M. L. C. BERNHEIM, DANN, AND TAYLOR; DR. CONANT, COOLIDGE, EVERETT, HOLLINSHEAD, AND YATES

The facilities of the Departments listed below are available to qualified students for independent or supervised research and investigations whether working for advanced degrees or otherwise.

## ANATOMY

**M201. Gross Human Anatomy.**—A course especially designed for graduate students, comprising a complete dissection of the cadaver. The laboratory work is supplemented by conferences which place emphasis on the biological aspects of the subject. *Fall and winter quarters.* Hours and credits (maximum 8 s.h.) by arrangement. Prerequisites: Zoology 41 and 191 or the equivalent.

DR. SWETT AND STAFF

**M202. Microscopic Anatomy.**—Conferences and laboratory work on the morphological characteristics of the tissues of the animal body. The work is based upon a study of fresh and prepared material and is approached from the physiological viewpoint. *Fall quarter.* Hours and credits (maximum 2 s.h.) by arrangement. Prerequisite: Zoology 42 (General Histology) or its equivalent.

DR. HETHERINGTON AND STAFF

**M203. Anatomy of the Nervous System.**—A study of the gross and microscopic structure of the human central nervous system, special attention being paid to the structural and functional relationships between the various nuclei and fiber tracts. *Winter quarter.* Hours and credits (maximum 4 s.h.) by arrangement. Prerequisite: Anatomy M201.

DR. HETHERINGTON

**M204. Human Embryology.**—A lecture and seminar course dealing with the development of the individual with especial reference to the human. Laboratory work, hours and credits (maximum 2 s.h.) by arrangement. Limited to eight students. Prerequisites: Zoology 41 and 191.

DR. SWETT AND STAFF

**M205. Regional Anatomy.**—A study of transverse sections of the human body for the purpose of establishing the spatial relationships of the various organs. Hours and credits (maximum 3 s.h.) by arrangement. Prerequisites: Anatomy M201 and M202.

DR. SWETT AND STAFF

## BACTERIOLOGY AND IMMUNOLOGY

**M221. Bacteriology and Immunology.**—This course is devoted primarily to the study of the biological and immunological relationships of micro-organisms in disease. It is not a course in bacteriologic technique. An additional course in technical methods is provided for those who require it. Two hours lecture and 8 hours laboratory per week in fall quarter. Prerequisites: courses in general zoology, general botany, histology and comparative anatomy, general and organic chemistry. 4 s.h.

DR. D. T. SMITH AND STAFF

**M323. Advanced Bacteriology and Immunology.**—This course is intended primarily for graduate students majoring in bacteriology, but it is also available as a minor to such other graduate students in related fields, to whom it is recommended by respective supervising committees and with the approval of the Department of Bacteriology. 8 s.h.

DR. D. T. SMITH AND STAFF

## BIOCHEMISTRY

**M241. General Biochemistry.**—Three lectures, four laboratory periods of three hours each, and one two-hour seminar weekly for eleven weeks. Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry and at least one year of college biology. *Winter quarter.* 6 s.h.

DR. PERLZWEIG, DR. TAYLOR, AND STAFF

**M242. Biochemical Preparations.**—Eight hours laboratory with conferences when necessary. This course involves detailed study of the chemistry of enzymes, proteins, fats, carbohydrates and derivatives. Prerequisite: Biochemistry M241. *Spring, summer, fall quarters.* Hours by arrangement. 2 s.h.

DR. TAYLOR AND STAFF

**M341. Pathological Chemistry.**—Seminar course devoted to a detailed study of the chemical and physical chemical aspects of normal and abnormal metabolism. Two hours per week by arrangement. Prerequisites: Biochemistry M241 and Physiology M251-2. *Winter, spring, and summer quarters.*

Laboratory work consisting chiefly of blood and urine analysis in relation to problems discussed will be provided for students desiring it.

DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

#### PHYSIOLOGY AND PHARMACOLOGY

**M261-2. Human Physiology and Pharmacology.**—Six lectures and twenty laboratory hours per week. Prerequisites: Anatomy M201 and Biochemistry M241 (or equivalents) and at least one year of college physics. *Spring quarter.* Credits depending on work taken. (Maximum 8 s.h.)

The lectures in pharmacology, two hours per week, are included in this course and may be taken separately or omitted, depending upon the needs of the student.

DR. EADIE AND STAFF

**M263. Physiology of Digestion, Metabolism, and Nutrition.**—Two hours lectures and conferences and the equivalent of one laboratory period of three hours per week. Prerequisite: Biochemistry M241. *Spring quarter.* 2 s.h.

This course constitutes a part of Physiology M261-2, but may be taken separately.

DRS. W. J. DANN, EADIE, AND F. M. BERNHEIM

**M361. Advanced Physiology.**—Advanced lectures on selected topics in Physiology. One hour per week. Prerequisites: Physiology M261 and M262. *Spring or summer quarters.* 1 s.h.

DR. EADIE AND STAFF

## THE SUMMER SCHOOL

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The Duke University Summer School is divided into two consecutive terms of six weeks each. Many courses giving graduate credit are offered by members of the University Faculty and by visiting professors. A bulletin containing information regarding the graduate courses to be offered during the summer of 1938 may be obtained by addressing the Director of the Summer School, Duke University, Durham, N. C. Summer school graduate students who desire to be admitted as candidates for advanced degrees should make application to the Dean of the Graduate School and furnish official transcripts of the work done for the Bachelor's degree. Such application may be made by correspondence or in person during the first week of each summer term.



## FEES AND EXPENSES

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The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

### GENERAL FEES IN THE ACADEMIC YEAR

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage fee, payable annually at the time of first registration.....	1.00
Medical fee, per semester.....	5.00
Library fee, per semester.....	5.00
Commencement fee, payable once by graduate students in the last semester before a degree is conferred.....	3.00
Diploma fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00

For further information concerning room-rent, see below.

### SPECIAL FEES

Graduate students in the sciences are required to pay the special laboratory fees for courses as fixed by the various departments. An administrative fee is charged in connection with special research work in the summer under direction of a member of the Faculty.

### STUDENTS FROM THE UNIVERSITY OF NORTH CAROLINA GRADUATE SCHOOL

Regular students from the University of North Carolina Graduate School admitted to courses in the Duke University Graduate School pay a registration fee of \$2.00 and any laboratory or special course fees which are required of all students.

### TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one transcript of his record. A charge of \$1.00 is made for each additional copy.

### PAYMENTS TO FELLOWS AND SCHOLARS

Payments by the University of stipends to fellows and scholars are made in four installments, on November 25, January 25, March 25, and May 25.

Fellows and scholars are required to pay the regular tuition fee and such additional fees as are ordinarily required of graduate students. Assistants who are permitted to register for only four-fifths of a regular program for a year are charged a proportionate amount of the tuition fee in addition to the same matriculation and minor fees as other students.

### TEACHERS TAKING GRADUATE COURSES

For the purpose of aiding North Carolina teachers in their professional preparation, Duke University grants a special tuition rate to members of the faculties of near-by schools and colleges who desire to register during the regular academic session for one or two graduate courses. For such courses a teacher is required to pay a registration fee of \$5.00 at the beginning of each semester and a tuition fee of \$3.00 for each semester-hour of work, together with any regular laboratory fees which may be required in these courses. A student may not register for more than seven hours per week under this provision.

Instructors, part-time instructors, members of the Library Staff, other similar members of the University Staff, and ministers of nearby churches may be included under the above provision by the Dean of the Graduate School, provided such persons are not receiving more than one-half credit for residence in meeting the requirements for advanced degrees.

The special tuition rate for teachers does not apply in any case to the holders of fellowships, graduate scholarships, and graduate assistantships annually awarded in the Graduate School of Arts and Sciences.

### ROOMS AND CONDITIONS OF RENTING THEM

#### ROOM-RENT FOR MEN OF DUKE UNIVERSITY

West Campus, per semester.....	\$50.00, \$62.50, and \$75.00
East Campus, per semester.....	\$30.00 and \$50.00

All graduate courses are given on the West Campus.

#### ROOM-RENT IN WOMAN'S COLLEGE

Single room, Faculty Apartments, per semester, per student.....	\$87.50
Double room, Faculty Apartments, per semester, per student.....	\$62.50

Rooms are reserved only for students who have been officially accepted by the University. They are rented for no shorter period than one semester. The occupancy of a room for a period less than one semester will cost the student \$1.00 each day unless the occupant makes the necessary arrangements with the Director in the Business Division before occupying the room. If the student desires a room in the graduate section of the dormitories, a room reservation fee of \$25.00 is payable at the date of acceptance of his application for admission. This fee is deducted from the room-rent in the fall and is not refundable unless the request is made on or before July 15. A shortage of rooms makes it imperative that those who desire a dormitory room apply early.

A resident student who wishes to retain his room for the succeeding year must first pay a reservation fee of \$25.00 to the Treasurer's Office and then notify the office of the Director of the Business Division on or before

May 15. All rooms which have not been signed for on or before May 15 will be considered vacant for the succeeding year. When a room is once engaged by a student, no change will be permitted except with the consent of the Director of the Business Division.

Graduate students are required to observe the same general regulations as undergraduate students with respect to the use of the rooms. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. The use of a room for merchandising of any kind is strictly forbidden.

The University does not assume the responsibility of selecting and assigning roommates, though it will gladly render any assistance possible in the matter.

On the West Campus there are three groups of dormitories for men, Craven, Crowell, and Kilgo. Each group forms a quadrangle enclosing a court. Certain sections are reserved especially for the use of students of the Graduate School of Arts and Sciences. Work was recently started on a large new graduate dormitory opposite the Union on the West Campus. It is expected that its opening will be one of the features of the program celebrating the Centennial of the Origins of Duke University in 1938-39. On the East Campus a limited number of rooms in the Faculty Apartments is available to women registered in the Graduate School. All students' rooms, both on the Woman's College Campus and on the West Campus, are supplied with all necessary furnishings except towels, sheets, pillow-slips, blankets, heavy bedcoverings, and table lamp.

### BOARDING ACCOMMODATIONS

*Trinity College, West Campus.*—Beginning with the academic year 1930-31 the University opened its dining-hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. It is the policy of the University to furnish board to its students at actual cost. Charges for board will not exceed \$25.00 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barbershop, and all publication staff offices.

In addition to the Union dining-halls a coffee shop is operated for the convenience of students and visitors.

*Woman's College, East Campus.*—The dining-halls of the Woman's College are situated in the Union, the student center, on the East Campus. Board is \$112.50 per semester.

### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a graduate student are moderate, the University dormitories provide thoroughly comfortable and wholesome liv-

ing conditions at a minimum cost, while all charges made by the University have been kept low. Incidental expenses naturally depend upon the tastes and habits of the individual. The following table gives the necessary college expenses for one year:

	<i>Low</i>	<i>Moderate</i>	<i>Liberal</i>
Tuition .....	\$200.00	\$200.00	\$200.00
Matriculation .....	50.00	50.00	50.00
Room-rent .....	60.00	100.00	150.00
Board .....	225.00	225.00	225.00
Laundry .....	20.00	25.00	30.00
Books .....	22.50	30.00	45.00
Library Fee .....	10.00	10.00	10.00
Athletic Fee .....	10.00	10.00	10.00
Damage Fee .....	1.00	1.00	1.00
Medical Fee .....	10.00	10.00	10.00
<i>Total</i> .....	<i>\$608.50</i>	<i>\$661.00</i>	<i>\$731.00</i>

## ADVANCED DEGREES CONFERRED JUNE 7, 1937

### MASTER OF ARTS

*Adams, Ruby Irene	Garren, Kenneth Howard
Agnew, Virginia Miller	*Garrett, Gordon Hughes
*Albright, Willie Thelma	*Gillespie, Helen
*Alexander, Ruth	Gilmer, Lula Jane
*Alford, Attie America	*Glenn, Vivian Eugene
Anderson, Marcia Lee	Guagenty, Mary Clementina
*Askew, Alice Washburn	*Guice, Clarence Norman, Jr.
Autry, John Duncan Asbury	Hall, Thaddaeus Bland
*Bagby, James Willis, Jr.	*Hallowell, John Hamilton
Ball, Esther Judson	*Hedeman, Emma Ruth
Beaven, Evelyn Sherwin	*Hess, John Henry
Beaven, George Francis	*Hettinger, Charles Paul
*Birch, Olive Georgeanna Mary	Hewell, Onyce Olive
Bonfoey, Winifred Lee	*Hilliard, Frances Pauline
*Bowden, William Robert, Jr.	*Hooper, Winona Elizabeth
*Bowman, Clarice Margaret	Hopkins, Elizabeth Gertrude
Branford, Walter Avery	*House, James Harwell, Jr.
Brown, James Wilson	*Jacobs, Donald Harry
Burt, Everett Johnson, Jr.	Johnson, Keith Whitaker
*Chitwood, Elizabeth Anne	Kelley, Rhoda Athaleene
Creegan, Robert Francis	*Ketchum, Margaret Mae
Cruikshank, Margaret Jones	Key, Francis Bromley
*Cummings, Willetta Bernadine	*Kimler, Verna
*Davis, Virginia Bridges	*King, Joseph Jerone, Jr.
*Depew, Arthur McKinley	Kirby-Smith, John Seldon
*Dickerson, Robert Turpin	*Knight, Lofton Lacie
*Dorsett, Edward Cruttenden	*Lanckton, Arthur Leroy
*Farmer, Thomas Wohlsen	*Lott, Audrey Peacock
*Few, Lyne Starling	*McAfee, Janet Brokaw
Fike, Cora Ruth	*McCall, Margaret
*Finan, John Lincoln	Mann, Bess Mae
Flinner, Laurence Victor	*Miller, Paul
Foster, Hazel Elizabeth	Moore, Katherine Boude

\* Degree conferred *in absentia*.

Moorman, Claude Thurman  
 \*Mount, Elizabeth  
 Pegram, Margaret Hanner  
 Phelps, George Thomas  
 \*Purcell, Wilbur Hallam  
 Reichert, Albert Phillips  
 \*Richmond, William Dickenson  
 \*Robertson, Hettie Marian  
 \*Scovel, Jackson  
 \*Shaffer, Donald Wade  
 \*Sharp, David Gordon  
 Sheese, Mildred Libbie  
 Smart, Virginia Lee  
 Smith, Benjamin Lee

Smith, Burke McGuire  
 \*Smith, Pauline Duggan  
 Storey, George Gilbert  
 Stuckey, James Morlan  
 \*Timmerman, John Ranson, Jr.  
 Tobin, Catherine Elizabeth  
 \*Townes, Charles Hard  
 \*Turquette, Atwell Rufus  
 \*Vigal, Joseph Clifton  
 \*Weaver, James Calvin  
 Wilcox, David Henry, Jr.  
 Wilson, Graves Humbert  
 Woodall, John Burwell  
 Zimmerman, Carroll Louis

## MASTER OF EDUCATION

Adams, Robert Lausch  
 \*Bogue, Helen Sarah  
 \*Bowles, Madison Harwell  
 \*Caffrey, Mary Margaret  
 \*Collins, Elmer Harland  
 Cooke, Cecil Dennis  
 \*Dalton, William Theophilus, Jr.  
 Dotson, Roy  
 \*Dunn, Elmer Cowan  
 Felder, Helen Elise  
 \*Hannen, Lew Wallace  
 Hassell, Allene Brinkley  
 Head, Philemon Ernest  
 \*Henry, Howard Emerson  
 \*Hoffman, George Peters  
 Holt, Nancy Binford  
 Jacobs, James Arnold  
 Jones, Stella Marie

\*Keith, Harry Dale  
 \*Leenhouts, Laura Nelja  
 Longanecker, Edwin Snyder  
 Lupien, Alfred Louis  
 McCormick, Addie  
 \*McGhee, Grant Oliver  
 May, William Henry  
 Rice, Clinton Posey  
 \*Richmond, John Ashley  
 \*Schrack, John Howard  
 \*Shockloss, Michael Daniel  
 \*Swim, Riley Cecil  
 \*Tyler, Karlie Reed  
 Weddle, William McKinley  
 \*Williams, Ellis Downing  
 \*Winter, George Virgil  
 \*Withers, Clarence Maxwell

## DOCTOR OF PHILOSOPHY

ALTLAND, PAUL DANIEL, JR., B.S., Gettysburg College; A.M., Duke.  
 Dissertation: *Cytology of the Hypophysis of the Fence Lizard, Sceloporus Undulatus Undulatus Latreille.*

BATES, ROGER GORDON, B.S., Massachusetts State College; A.M., Duke.  
 Dissertation: *Equilibria in Cadmium Iodide Solutions.*

BECK, LEWIS WHITE, A.B., Emory University; A.M., Duke.  
 Dissertation: *Synopsis: A Study in the Theory of Knowledge.*

BETTERS WORTH, JOHN KNOX, A.B., Millsaps College.  
 Dissertation: *Confederate Mississippi.*

BLOOM, LEONARD, B.S., A.M., Boston University.  
 Dissertation: *The Acculturation of the Eastern Cherokee.*

BRODY, LEON, A.B., M.S., College of the City of New York.  
 Dissertation: *The Testing and Analysis of Certain Types of Verbal and Non-Verbal Reasoning.*

\*CLAYTON, WILLIAM JOSEPH, A.B., Southeastern Teachers College; A.M., Duke.  
 Dissertation: *Equilibria in Cadmium and Zinc Oxalate Solutions.*

ECKARD, EDWIN WOODROW, A.B., Marshall College; A.M., Duke.  
 Dissertation: *Economics of W. S. Jevons.*

\* Degree conferred in absentia.



ESKRIDGE, THOMAS JOSEPH, JR., A.B., Emory and Henry College; A.M., George Peabody College for Teachers.

Dissertation: *Growth in Understanding of Geographic Terms in Grades IV to VII.*

GARDNER, EUGENE ELMORE, B.A., Furman University; A.M., University of Chicago.

Dissertation: *Brunetière and the Doctrinaire Critics of the Twentieth Century.*

GOLCHARLES, CHARLES AUGUSTUS, A.B., Bucknell University; A.M., Duke.

Dissertation: *Some Contemporary Political Theories Philosophically Considered.*

HARD, WALTER LEON, A.B., Albion College.

Dissertation: *The Spermatogenesis of the Lycosid Spider, Schizocosa Crassipes (Walckenaer).*

KATES, KENNETH CASPER, A.B., St. Stephen's College; A.M., Duke.

Dissertation: *Mitochondria in the Male Germ Cells of the Guinea Pig.*

KEECH, JAMES MAYNARD, A.B., A.M., Duke.

Dissertation: *Workmen's Compensation in North Carolina.*

MACCOLL, SYLVIA HAZELTON, A.B., A.M., Smith College.

Dissertation: *A Comparative Study of the Systems of Lewin and Koffka with Special Reference to the Interpretation of Memory Phenomena.*

MCCARRELL, DAVID KITHCART, A.B., Washington and Jefferson College; A.M., Duke.

Dissertation: *The Formation of the Jeffersonian Party in Virginia.*

RAINSFORD, ALBERT EDWIN, B.S., University of South Carolina; A.M., Duke.

Dissertation: *A Study of Certain Reactions of Ald-Chlorimines and the Configurations of Acyl-Aldoximes.*

RENFROW, WILLIAM BURNS, JR., B.S., Furman University; A.M., Duke.

Dissertation: *A Study of Certain Aspects of the Lossen Rearrangement and the Claisen Condensation.*

\*SCHOPMEYER, CLIFFORD SCHARFF, B.S., George Washington University; M.S., University of Maryland.

Dissertation: *The Effect of Soil Moisture on the Transpiration and Bound Water Content of Loblolly Pine and Shortleaf Pine with Reference to Drought Resistance.*

SEARCY, HUBERT, A.B., Birmingham-Southern College; A.M., Duke.

Dissertation: *The Use of the Congressional Joint Resolution in Matters Relating to Foreign Affairs.*

\*WALKER, HERMAN, JR., A.B., A.M., Duke.

Dissertation: *The Most-Favored-Nation Treatment of Consular Officers.*

WALLACE, ELBERT STEPHEN, A.B., Birmingham-Southern College; A.M., Duke.

Dissertation: *The Federal Home Loan Bank System.*

WEBSTER, MARGARET DOROTHY, B.Sc., M.Sc., Dalhousie University.

Dissertation: *The Oxidation of Amino Acids by Certain Bacteria.*

WINTON, LOWELL SHERIDAN, B.S., Grove City College; A.M., Oberlin College.

Dissertation: *Compatible Integro-Differential Systems.*

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\* Degree conferred in *absentia*.

# LIST OF GRADUATE STUDENTS

## ACADEMIC YEAR, 1937-38

Adman, Andrew George B.S. (North Carolina State College), Forestry.	Aliquippa, Pa.
Anderson, Marcia Lee A.B. (Bryn Mawr College), A.M. (Duke), English.	Durham, N. C.
Ayers, John Carr A.B. (Kalamazoo College), M.S. (Kansas State College), Zoology, Botany.	Marcellus, Mich.
Bagley, Mariana Dasch A.B. (Duke), History, Economics.	Norfolk, Va.
Ballenger, Stanley Thomas A.B., A.M. (University of North Carolina), German, English.	Raleigh, N. C.
Barbour, William Johnston A.B. (University of North Carolina), Botany, Forestry.	Chapel Hill, N. C.
Baseman, Hazel Henrietta B.Ed. (St. Cloud State Teachers College), Education, Sociology.	Hutchinson, Minn.
Baum, Rhoda May A.B. (Greensboro College), Chemistry, Physics.	Kitty Hawk, N. C.
Beamer, Celestine Marie B.S. (Duke), Physiology.	Durham, N. C.
Beckman, John Fink A.B. (Stanford), Chemistry, Physics.	Lodi, Calif.
Bennett, Georgia Belle A.B. (College of William and Mary), Psychology, Zoology, Education.	Richmond, Va.
Bennett, Ruth A.B. (Duke), A.M. (Columbia), English.	Clarksburg, W. Va.
Bethel, James Samuel B.S. (University of Washington), Forestry, Botany.	Roy, Wash.
Bevel, Nelle Hester B.S. (College of the Ozarks), A.M. (University of Arkansas), Zoology, Botany.	Pine Bluff, Ark.
Biggerstaff, Frank Malcolm A.B. (Duke), Education.	Burlington, N. C.
Black, Henry Arnold B.S., A.M. (Boston), English, German.	Boston, Mass.
Bogges, William Randolph A.B. (Concord State Teachers College), Botany, Forestry.	Oakvale, W. Va.
Bolen, Claude Waldron A.B. (Emory and Henry College), A.M. (Duke), History	Bluefield, W. Va.
Boomhour, Elizabeth Gregory A.B. (Meredith College), A.M. (Cornell), Botany, Forestry.	Raleigh, N. C.
Bortner, Clyde Randall B.S. (Franklin and Marshall College), Chemistry.	Hanover, Pa.
Brach, Earl Tilton A.B. (Duke), Greek, Latin.	Baltimore, Md.
Brandis, Roland Buford, Jr. A.B. (University of Richmond), Economics, Political Science.	Richmond, Va.

- Breslow, David Samuel  
B.S. (College of the City of New York), Chemistry, Physics. Ozone Park, N. Y.
- Brice, Ashbel Green  
A.B., A.M. (Columbia), English. York, S. C.
- Bright, Robert Dietrich  
A.B. (Dartmouth College), Chemistry. Passaic, N. J.
- Broadway, Blanche  
A.B., A.M. (Duke), History. Durham, N. C.
- Brown, James Wilson  
B.S. (University of Maryland), A.M. (Duke), Forestry. Washington, D. C.
- Bruner, Jerome Seymour  
A.B. (Duke), Psychology, Zoology, Philosophy. Forest Hills, N. Y.
- Burt, Everett Johnson, Jr.  
A.B. (Berea College), A.M. (Duke), Economics, Sociology, History. Jackson, Mich.
- Bussell, Wilsie Florence  
A.B. (Duke), Romance Languages. Durham, N. C.
- Cain, Herbert Lloyd  
A.B. (Southwestern), Greek, Latin. Asheville, N. C.
- Calfee, John Douglas  
A.B. (Park College), M.S. (University of Tennessee), Chemistry. Arden, N. C.
- Canaday, Ernest Franklin  
A.B. (William Jewel College), A.M. (University of Missouri), Mathematics. Raleigh, N. C.
- Carlton, John Buford  
B.S. (University of Georgia), Forestry. Hartwell, Ga.
- Carroll, James Grover  
A.B. (Wake Forest College), A.M. (Columbia), Mathematics. Wake Forest, N. C.
- Chaffin, Nora Campbell  
A.B., A.M. (Duke), History. Durham, N. C.
- Christenson, James Andreas, Jr.  
A.B. (Harvard), Psychology, Philosophy, Education. Durham, N. C.
- Clark, John Bunyan, Jr.  
A.B. (Mercer), History, Economics. Macon, Ga.
- Clay, Leo Roderick  
A.B. (Lynchburg College), Psychology, Education. Lynchburg, Va.
- Colloms, Lester Hubert  
A.B. (Emory and Henry College), B.D. (Emory), Religion, Sociology, Philosophy. Cleveland, Tenn.
- Cooper, Gerald Rice  
A.B. (Duke), Chemistry, Physics. Durham, N. C.
- Copeland, Lewis Campbell  
A.B. (Texas Christian), A.M. (University of Chicago), Sociology. Houston, Tex.
- Correll, Donovan Stewart  
A.B., A.M. (Duke), Botany. Winston-Salem, N. C.
- Covington, Mary Faison  
A.B. (Duke), English. Thomasville, N. C.
- Cox, Headley Morris, Jr.  
A.B. (Duke), English. Mount Olive, N. C.
- Coy, Nettie Helena  
A.B. (University of New Brunswick), A.M. (Columbia), Physics. Upper Gagetown, N. B., Canada
- Craig, Ruth Winifred  
A.B. (University of North Carolina), History, Education. Durham, N. C.

- Creegan, Robert Francis  
A.B. (Marietta College), A.M. (Duke), Philosophy, Religion, Psychology.  
Chautauqua, N. Y.
- Culbreth, Sarah Elizabeth  
A.B., A.M. (Duke), Zoology.  
Rocky Mount, N. C.
- Dale, William Pratt, II  
A.B., A.M. (Duke), History.  
Greensboro, Ala.
- \*Derr, Paul  
B.S. (Duke), Chemistry.  
W. Hazleton, Pa.
- Devers, Nancy Ora  
B.S., A.M. (George Peabody College for Teachers), Education, Philosophy.  
Raleigh, N. C.
- Dickerson, Robert Turpin  
A.B., A.M. (Duke), Physics.  
Durham, N. C.
- Dickson, Margaret  
A.B. (University of Tennessee), Latin.  
Knoxville, Tenn.
- Doby, Julia Lillian  
A.B. (Woman's College of the University of North Carolina), Education.  
Newsom, N. C.
- Doty, Cornelia Allen  
A.B. (Stanford), A.M. (Mills College), Education.  
Los Angeles, Calif.
- Doty, Roy A., Jr.  
A.B. (Duke), Education, Psychology.  
Rogersville, Tenn.
- Douglas, Jessie Owens  
A.B. (Winthrop College), Education.  
Winnsboro, S. C.
- Douglass, Elinor Marie  
A.B. (Duke), English.  
Hartford, Conn.
- Duehring, Frederica Elizabeth  
A.B. (Duke), History, English.  
Washington, D. C.
- Duehring, Virginia Atwell  
A.B. (Duke), History, Economics.  
Washington, D. C.
- Duke, Kenneth Lindsay  
A.B. (Brigham Young), Zoology.  
Heber City, Utah
- Dunsky, Irvin  
A.B. (University of Newark), Sociology, Philosophy, Zoology, Psychology.  
Newark, N. J.
- Ewing, Thomas Newell, Jr.  
A.B. (DePauw), A.M. (Syracuse), Psychology, Sociology.  
Springfield, Ill.
- Farley, John Thomas  
B.B.A. (Manhattan College), Economics.  
New York, N. Y.
- Feister, Irving  
A.B. (Harvard), Physics, Engineering.  
Norwich, Conn.
- Fischer, Monroe Carl  
A.B. (Duke), Economics, Political Science.  
Scranton, Pa.
- Flanders, Bertram Holland  
A.B., A.M. (Emory), English.  
Oxford, Ga.
- Flemister, Launce Johnson, Jr.  
A.B. (Duke), Zoology.  
Atlanta, Ga.
- Flora, William Evans Sherlock  
A.B. (College of Wooster), Political Science, Economics, Jurisprudence.  
Canton, Ohio
- Fluegel, Edna Rose  
A.B. (Marywood College), A.M. (Duke), Political Science.  
Wilkes-Barre, Pa.
- Formwalt, John McClellan  
A.B. (Carson-Newman College), Physics, Mathematics.  
Jefferson City, Tenn.

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\* B.S. to be conferred June, 1938.

- Foster, Hazel Elizabeth  
A.B. (Hood College), A.M. (Duke), Political Science, History. Brunswick, Md.
- Fox, Theodore William  
A.B. (Union College), Chemistry, Physics. Albany, N. Y.
- Frank, Grady Craven  
A.B., A.M. (Oxford, England), Mathematics. Mount Airy, N. C.
- Frey, Ellen Frances  
A.B. (Barnard College), English, History. Elberon, N. J.
- Galloway, Charles Betts  
B.S. (Millsaps College), A.M. (Duke), Education. Jackson, Miss.
- Garber, Paul Leslie  
A.B. (College of Wooster), B.D., Th.M. (Louisville Presbyterian Theological Seminary), Religion, Psychology, Sociology, Philosophy. Dubuque, Iowa
- Garodnick, Irvin O.  
B.S., M.S. (North Carolina State College), German. Raleigh, N. C.
- Garren, Kenneth Howard  
A.B., A.M. (Duke), Botany, Zoology. Hendersonville, N. C.
- Garrison, John Leland  
A.B. (Duke), English. W. Durham, N. C.
- George, Theodore Samuel  
B.S. (Grove City College), A.M. (Duke), Mathematics. Grove City, Pa.
- Giesey, Jean Campbell  
A.B. (Barnard College), A.M. (Columbia), Psychology. New York, N. Y.
- Gilbert, Paul Wilner  
A.B., A.M. (University of Rochester), Mathematics. Avon, N. Y.
- Going, William Thornbury  
A.B. (University of Alabama), English. Birmingham, Ala.
- Goode, Benjamin Clifford  
A.B. (University of Richmond), A.M. (University of Virginia), History. Henry, Va.
- \*Gould, Robert Kent  
A.B. (Duke), Chemistry. Hamburg, N. J.
- Greene, John Thomas  
A.B. (Duke), Religion, Philosophy, Psychology. Rougemont, N. C.
- Guyton, Percy Love  
B.S. (Mississippi State College), M.B.A. (Northwestern), Economics. State College, Miss.
- Hamilton, William Baskerville, Jr.  
A.B., A.M. (University of Mississippi), History. Durham, N. C.
- Hargreaves, Herbert Walter  
A.B. (University of Nevada), A.M. (Clark), Economics. Reno, Nev.
- Hartz, Edwin Ruben  
A.B. (Southeast Missouri State Teachers College), B.D. (Duke), Sociology, Psychology, Economics. Puxico, Mo.
- Harwell, George Corbin  
A.B., A.M. (Duke), English. Durham, N. C.
- \*Hausser, Harry Edward  
A.B. (Duke), Philosophy, English. Scranton, Pa.
- Henderson, Alfred James  
A.B., A.M. (University of Rochester), History. Rochester, N. Y.
- Herndon, Nettie Southworth  
A.B., A.M. (West Virginia), History. Durham, N. C.

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\* A.B. to be conferred June, 1938.



Hexamer, Lauren Elwood B.S. (Purdue), Forestry.	Canton, Ohio
*Hibbs, Max Lee B.S. (Alabama Polytechnic Institute), History, Economics.	Alabama City, Ala.
Hicks, Ethalyn Roberta A.B. (Woman's College of the University of North Carolina), Education, Sociology.	Asheville, N. C.
Hinson, Ellie Ford A.B. (East Carolina Teachers College), Education.	Warrenton, N. C.
Hodges, Carroll Broadus A.B., M.S. (University of Oklahoma), Psychology.	Claremore, Okla.
Holder, Virginia Smart A.B. (Randolph-Macon Woman's College), A.M. (Duke), Latin.	Portsmouth, Va.
Hopkins, John Isaac B.S., A.M. (Duke), Physics, Mathematics.	Nokesville, Va.
Howie, Naomi A.B. (Greensboro College), Religion, Sociology.	Thomasville, N. C.
Hudnall, Eva Irene B.S. (Farmville State Teachers College), English.	Critz, Va.
Humphreys, Mary Emily A.B. (Western Maryland College), Botany, Forestry.	Berlin, Md.
Jackson, David Kelly, Jr. A.B., A.M. (Duke), English.	Durham, N. C.
Jester, Joseph Richardson B.S. (Duke), Botany, Forestry.	Asheville, N. C.
Johnson, Eric Gustav Ph.B. (University of Chicago), English.	Chicago, Ill.
Johnson, Keith Whitaker A.B. (University of Kansas), Economics.	Eureka, Kan.
Johnson, Mary Mercedes A.B. (Indiana), Mathematics.	Durham, N. C.
Jones, Elijah Newman A.B. (Elon College), Education.	Holland, Va.
Jones, John Sneed B.S. (George Peabody College for Teachers), A.M., B.D. (Vanderbilt), Philosophy, Religion.	Brentwood, Tenn.
Jordan, Walter Edward B.S., A.M. (Wake Forest College), M.S. (North Carolina State College), Chemistry.	Raleigh, N. C.
Kirby-Smith, John Seldon B.S. (University of the South), A.M. (Duke), Physics, Chemistry.	Sewanee, Tenn.
Klein, James Raymond A.B. (Duke), Biochemistry.	Baltimore, Md.
Kuehner, Kenneth George A.B. (Allegheny College), A.M. (University of Pittsburgh), Education.	Meadville, Pa.
Lamas, Petro Charles A.B. (Emory), Greek.	Savannah, Ga.
Laverty, Carroll Dee A.B., A.M. (University of Colorado), English.	Meeker, Colo.
Leath, James Milton A.B. (Austin College), A.M. (Southern Methodist), Political Science, History.	Brookhaven, Miss.

\* B.S. to be conferred June, 1938.

- Levenson, Morris E.  
A.B., M.Sc. (New York), Mathematics. Bronx, N. Y.
- Lever, Oscar William  
A.B. (Wofford College), Religion, Philosophy. Blackwood, S. C.
- Levy, Edward David  
A.B. (Harvard), Biochemistry, Bacteriology, Toxicology. Hartford, Conn.
- Lewis, Hubert Murry, Jr.  
B.S. (Duke), Chemistry, Physics. Henderson, N. C.
- Ligon, Edgar William, Jr.  
B.S. (University of Richmond), Zoology. Richmond, Va.
- Limouze, Arthur Sanford  
A.B. (College of Wooster), A.M. (Columbia), English. E. Marion, N. Y.
- Long, John William, Jr.  
A.B. (Dickinson College), History, Political Science. Williamsport, Pa.
- Louis, William K.  
A.B. (Duke), History, Economics. Schenectady, N. Y.
- Luttrell, Everett Stanley  
B.S. (University of Richmond), Botany, Zoology, Forestry. Richmond, Va.
- McCurdy, Harold Grier  
A.B. (Duke), Psychology. Salisbury, N. C.
- McCurdy, Mary Derrickson  
A.B. (Goucher College), A.M. (Syracuse), Zoology. Frederica, Del.
- McDougall, Kenneth Dougal  
(Duke), Zoology, Philosophy. Durham, N. C.
- McEwen, Noble Ralph  
A.B. (Birmingham-Southern College), A.M. (Duke), Education. Winston-Salem, N. C.
- McGavock, William Gillespie  
B.S. (Davidson College), A.M. (Duke), Mathematics. Franklin, Tenn.
- McGehee, William  
A.B. (University of the South), A.M. (George Peabody College for Teachers), Psychology. Raleigh, N. C.
- MacInnes, Donald Boyer  
A.B. (Linfield College), Philosophy, Psychology, Sociology. Kent, Ore.
- Magginis, Mary Amelia  
A.B. (Winthrop College), English. Rock Hill, S. C.
- Mangrum, James Freed  
B.S. (Memphis State Teachers College), M.S. (University of Tennessee), Zoology. Elbridge, Tenn.
- Marston, Frederic Carver, Jr.  
A.B. (Williams College), English. Durham, N. C.
- Marston, Helen Mount  
A.B. (Smith College), Mathematics. Durham, N. C.
- Martin, James Alfred, Jr.  
A.B. (Wake Forest College), Philosophy, Religion, Psychology. Roxboro, N. C.
- \*Martin, James Marion  
A.B. (Duke), English, Education. Kittrell, N. C.
- Martin, Willard Edgar, Jr.  
A.B. (Boston), A.M. (Harvard), English. Somerville, Mass.
- Maryott, Arthur Allen  
A.B. (Duke), Chemistry, Physics. Augusta, Ga.

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\* A.B. to be conferred June, 1938.

- Meade, Mary Edmunds  
A.B. (Randolph-Macon Woman's College), A.M. (University of Virginia), Mathematics. Durham, N. C.
- Meares, Jefferson Sullivan  
B.S. (University of South Carolina), M.S. (North Carolina State College), Physics. Raleigh, N. C.
- Michaels, Matilda Osborne  
A.B. (Duke), A.M. (Columbia), Education. Durham, N. C.
- Michel, Harry Oscar  
B.S. (University of California), Biochemistry. San Andreas, Calif.
- Miles, Ernest Percy, Jr.  
B.S. (Birmingham-Southern College), Mathematics, Physics. Birmingham, Ala.
- Millar, Helen Mary  
A.B. (McMaster), Sociology. Hamilton, Ont., Canada
- Miller, Elizabeth Moore  
A.B. (Pennsylvania College for Women), English, Romance Languages. Oil City, Pa.
- Miller, Howard Clifford  
A.B. (Bridgewater College), Physics, Mathematics. Nokesville, Va.
- Miller, William Long  
B.B.A. (University of Chattanooga), Economics. Nashville, Tenn.
- Moody, Peter Richard  
A.B. (Wofford College), English. Cooleemee, N. C.
- Moore, Eunice Martha  
B.S. (Maryland College for Women), A.M. (Johns Hopkins), Chemistry. Deep River, Conn.
- Morgan, John Wesley  
A.B. (Duke), Education. Selma, N. C.
- Morgan, Kenneth James  
B.S. (Cornell), Forestry. Albany, N. Y.
- Morris, Lewis Harry  
A.B. (Duke), Economics. Chester, Pa.
- Morris, William Lind  
B.S. (Carnegie Institute of Technology), M.S. (University of Pittsburgh), Mathematics. Asheville, N. C.
- Morrison, Garrett Weir  
A.B. (Kansas State Teachers College), Psychology. Joplin, Mo.
- Morton, Louis  
B.S., A.M. (New York), History. New York, N. Y.
- Moss, Florence  
A.B. (Duke), English. Mobile, Ala.
- Mountjoy, Marjorie  
A.B. (Vanderbilt), Latin, Romance Languages. Martin, Tenn.
- Mumford, Carey Gardner  
A.B. (Wake Forest College), A.M. (Duke), Mathematics. Raleigh, N. C.
- Munster, Ralf Friedrich William  
A.B. (Duke), Political Science, Economics, Jurisprudence. Savannah, Ga.
- Nakamura, Junichi  
(Hiroshima), English. Hiroshima, Japan
- Nelson, Melvin Frederick  
B.S. (Mississippi State College), A.M. (Municipal University of Omaha), Political Science, History. Starkville, Miss.
- Nicholson, William Benjamin  
B.S., A.M. (George Peabody College for Teachers), History. Clarksville, Tenn.

- O'Leary, James John  
A.B., A.M. (Wesleyan), Economics. Manchester, Conn.
- Oliver, Henry Madison, Jr.  
A.B. (Southwestern), A.M. (Duke), Economics, Philosophy. Union City, Tenn.
- Olliff, Martha  
A.B. (Wesleyan College), Religion, Philosophy. Cuthbert, Ga.
- Ostwalt, Jay Harold  
A.B. (Davidson College), Education, Sociology. Statesville, N. C.
- Owen, William Nathaniel  
A.B. (Duke), Economics. Schenectady, N. Y.
- Owens, William Hector  
A.B. (Centre College), Religion, Sociology. Danville, Ky.
- Park, Robert DeForest  
A.B. (Oberlin College), Physics, Mathematics. Lakewood, Ohio
- \*Parks, Helen Clare  
A.B. (Duke), Chemistry, Physics. Roanoke, Va.
- Pearson, Anna Sophia  
Ph.B. (University of Chicago), Education, Philosophy. Muskegon, Mich.
- Peck, Robert Lawrence  
B.S. (Duke), Chemistry, Bacteriology, Zoology. Binghamton, N. Y.
- Perry, Bruce Allen  
B.S., A.M. (Wake Forest College), Botany. Zebulon, N. C.
- Phillips, Edward Lindsey  
A.B., A.M. (Duke), History. Durham, N. C.
- Pittman, Louie Delle  
A.B. (East Carolina Teachers College), Education. Durham, N. C.
- Plantinga, Cornelius A.  
A.B. (Calvin Coolidge), A.M. (University of Michigan), Philosophy, Psychology. Waupun, Wis.
- Pohl, Herbert Ackland  
A.B. (Duke), Chemistry, Physics. Jacksonville, Fla.
- Pool, Frank Kenneth  
A.B., A.M. (Wake Forest College), Religion, History. Greenville, S. C.
- Pratt, Lanier Ward  
A.B. (Davidson College), Romance Languages. Louisville, Ky.
- \*Price, Margaret Mathilde  
A.B. (Duke), Zoology. Ridgewood, N. J.
- Putney, Anne Randolph Briscoe  
A.B. (Farmville State Teachers College), Political Science, Economics. Farmville, Va.
- Rawlings, Kenneth Winn  
A.B. (Kentucky Wesleyan College), A.M. (University of Kentucky), History. Louisville, Ky.
- Raynolds, Sara Ann  
A.B. (University of New Mexico), Mathematics, Philosophy. Albuquerque, N. M.
- Rein, William Christopher  
A.B. (Western Maryland College), Education, Economics. Cumberland, Md.
- Richman, Clyde Paul  
B.Ed. (Eastern Illinois State Teachers College), Education. Durham, N. C.
- Riley, Madison Monroe  
B.S. (North Carolina State College), Forestry. Raleigh, N. C.

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\* A.B. to be conferred June, 1938.

- Robertson, Alfred Parkhill  
A.B. (University of Kentucky), English. Mayfield, Ky.
- Roney, William Hamilton  
A.B. (Occidental College), A.M. (University of Michigan), Sociology. Dayton, Ohio
- Ryerson, Clifford Marten  
B.S. (John B. Stetson), Physics, Mathematics. Binghamton, N. Y.
- Sartor, Mary Runyan  
A.B. (H. Sophie Newcomb Memorial College), English. DeRidder, La.
- Savely, Harvey Epperson, Jr.  
B.S. (Mississippi State College), Zoology. Houlka, Miss.
- Scarborough, Henry Baldwin  
A.B. (Duke), Physics, Mathematics. Mt. Gilead, N. C.
- Schoenrich, Carlos Otto  
A.B. (University of North Carolina), A.M. (University of Michigan), Psychology. New York, N. Y.
- Seward, Donald Monfort  
A.B. (John B. Stetson), A.M. (University of North Carolina), Mathematics. DeLand, Fla.
- Sharp, David Gordon  
B.S. (Rutgers), A.M. (Duke), Physics, Chemistry, Bacteriology. Annandale, N. J.
- Shaw, John Sidney  
A.B. (Duke), History, Political Science. Orlando, Fla.
- Shore, Culver Cary  
A.B. (Duke), Economics. Trinity, N. C.
- Singer, Armand Edwards  
A.B. (Amherst College), Romance Languages. Brantford, Ont., Canada
- Slay, James Matthew  
A.B. (Duke), Romance Languages. Greenville, N. C.
- Smith, Burke McGuire  
A.B., A.M. (Duke), Psychology. Durham, N. C.
- Smith, Frank Ferrell  
A.B. (Duke), Botany. Durham, N. C.
- Snyder, William Ulrich  
A.B. (Gettysburg College), Psychology, Zoology, Education. Washington, D. C.
- Stabler, Carey Vitallis  
B.S., A.M. (University of Alabama), History. Greenville, Ala.
- Stadthagen, Heinz  
A.B. (Bethany College), A.M. (Duke), Economics. Pittsburgh, Pa.
- Stevenson, James Harold  
B.S. (Westminster College), A.M. (Oberlin College), Zoology, Physics. New Wilmington, Pa.
- Stroupe, Henry Smith  
B.S., A.M. (Wake Forest College), History. Alexis, N. C.
- Stroven, Carl Gerhardt  
A.B., A.M. (Stanford), English. Honolulu, Hawaii
- Stuckey, James Morlan  
B.S. (Centenary College), A.M. (Duke), Chemistry, Physics. Shreveport, La.
- Sutherland, George Foster  
A.B. (Duke), Chemistry. Grundy, Va.
- Talbert, Robert Harris  
A.B., B.S. (Southeast Missouri State Teachers College), A.M. (University of Missouri), Sociology, Economics, Psychology. Cape Girardeau, Mo.
- Tarrall, Elmer  
A.B. (Duke), Education. Durham, N. C.



- Tate, Russell Sage, Jr. Richmond, Va.  
A.B. (University of Richmond), Economics, Political Science.
- \*Taylor, Charles Theodore Salome, Ariz.  
B.S. (University of Arizona), A.M. (Duke), Economics.
- Thomas, David Boyd Raleigh, N. C.  
B.S., M.S. (North Carolina State College), Mathematics.
- Thomas, Mary Elizabeth Fayetteville, Ark.  
A.B., A.M. (University of Arkansas), History.
- Tilley, Nannie May Bahama, N. C.  
A.B. (Woman's College of the University of North Carolina), A.M. (Duke), History.
- Tobin, Catherine Elizabeth Charleston, S. C.  
A.B. (College of Charleston), A.M. (Duke), Latin.
- Toole, Eben Richard Lanham, Md.  
B.S. (New York State College of Forestry at Syracuse University), Forestry, Botany.
- Torresi, Alfred Fred Mt. Vernon, N. Y.  
B.S. (Fordham), Chemistry, Physics.
- Triplett, Edna Bernadine Charlotte, N. C.  
A.B. (Queens College), A.M. (Duke), English.
- Upchurch, Kathrine Manning Durham, N. C.  
A.B. (Duke), Sociology.
- Upchurch, Percy Bryant Monroe, N. C.  
A.B. (Wake Forest College), A.M. (Brown), B.D. (Yale), Religion, Psychology.
- Usry, John Bunyan Oxford, N. C.  
A.B. (Wake Forest College), English.
- Vermillion, Herbert Edward Competition, Mo.  
B.S. (Monmouth College), Chemistry.
- \*Wade, Luther Irwin Elkin, N. C.  
A.B. (Duke), Mathematics.
- Waite, Alex Winter Park, Fla.  
A.B. (University of South Carolina), M.Ed. (Duke), Education.
- Wallace, Lillian Parker Raleigh, N. C.  
A.B. (University of Denver), M.S. (North Carolina State College), History.
- Wang, Yen-chich Peiping, China  
B.S. (National Tsing Hua University), M.S. (Cornell), Forestry.
- Ward, William Smith Lexington, Ky.  
A.B. (Georgetown College), A.M. (Harvard), English.
- Watkins, Virgil Gray Kent's Store, Va.  
B.S. (University of Virginia), Forestry, Botany.
- Watson, Karl Brantley, Jr. Durham, N. C.  
B.S., A.B. (University of Chattanooga), A.M. (Duke), Education.
- Watts, Hessie Mooresville, N. C.  
A.B., A.M. (Duke), English.
- Wharton, George Willard, Jr. Upper Montclair, N. J.  
B.S. (Duke), Zoology.
- White, Harry Arthur Jackson, Mich.  
A.B. (Albion College), History, Political Science.
- White, Mary Rebecca Fairmont, W. Va.  
A.B. (Fairmont State Teachers College), A.M. (Duke), Latin.

\* A.B. to be conferred June, 1938.

Williams, Myra Allene	Abbeville, S. C.
A.B. (Winthrop College), A.M. (University of South Carolina), Zoology.	
Williams, William Lane	Spartanburg, S. C.
B.S. (Wofford College), Zoology, Anatomy.	
Wilson, John Woodrow	Durham, N. C.
B.S. (Duke) Zoology.	
Woodruff, Joseph Leroy	Des Moines, Iowa
A.B. (Tarkio College), Psychology, Sociology.	
Wright, James Clyde	Oakdale, Pa.
A.B. (Muskingum College), Psychology, Philosophy, Sociology.	
Yarbrough, Mary Elizabeth	Raleigh, N. C.
A.B. (Meredith College), M.S. (North Carolina State College), Chemistry, Bio-chemistry.	
Young, DeWalt Secrist	Lisbon, Iowa
A.B. (Cornell College), Chemistry.	
Young, Paul Gordon	Decatur, Ga.
B.Ph. (Emory), A.M. (Tulane), German.	

## SUMMER OF 1937; FIRST TERM

Abee, Florence Edwina	Tampa, Fla.
A.B. (Florida State College for Women), English.	
Adams, William Marvin	Ackerman, Miss.
A.B. (Mississippi College), Education, History.	
Ader, Anne Rachel	Coleridge, N. C.
A.B. (Greensboro College), Education.	
Aitken, Edward Stark	Montrose, Pa.
B.S. (Mansfield State Teachers College), Education, History.	
Akins, Charles Wesley	Ethel, Miss.
B.S. (Mississippi State College), Education.	
Alexander, Ellen	Mountville, S. C.
A.B. (Winthrop College), History, English.	
Allaben, Sara	Thomson, Ga.
A.B. (Georgia State College for Women), Romance Languages.	
Allen, James Rollings	Rock Haven, Ky.
B.S. (Western Kentucky State Teachers College), Education.	
Alvis, Ventruel Elizabeth	Ceredo, W. Va.
A.B. (Marshall College), Education.	
Anderson, Julia Lynn	Chattanooga, Tenn.
A.B. (Maryville College), English.	
Anderson, Marcia Lee	Durham, N. C.
A.B. (Bryn Mawr College), A.M. (Duke), English.	
Andrews, Mary Ruth	Alderson, W. Va.
A.B. (West Virginia), Education.	
Archer, Cordelia Pearl	Johnson City, Tenn.
B.S. (East Tennessee State Teachers College), Education, History.	
Armstrong, Leo Henry	Bradenton, Fla.
B.S.E. (University of Florida), Education.	
Arnold, Mary Elva	Groveland, Fla.
A.B. (Rollins College), Education, English.	
Arnold, Mary Logan	Danville, Ky.
A.B. (Georgetown College), Sociology, Education.	

- Ash, Catharine Thomas Tarpon Springs, Fla.  
A.B. (Florida State College for Women), Education, English.
- Ashby, Dewey Theodore Rome, Ga.  
A.B. (Mercer), A.M. (George Peabody College for Teachers), Education.
- Atkins, Emily Lucy Howard Jacksonville, Fla.  
A.B. (Florida State College for Women), History.
- Atkinson, Annie Laurie Mullins, S. C.  
A.B. (Winthrop College), Education.
- Ayers, Archie Raymond Calhoun Falls, S. C.  
B.S. (University of South Carolina), Mathematics.
- Bailey, Gertrude Elizabeth Dryden, Va.  
B.S. (East Radford State Teachers College), Education.
- Bailey, Rosalie Vincent Greenwood, S. C.  
A.B. (Lander College), English, Romance Languages.
- Baker, Ira Lee China Grove, N. C.  
A.B. (Wake Forest College), Education, English.
- Baker, Ruth Maurine Daytona Beach, Fla.  
A.B. (John B. Stetson), History, Education.
- Baldwin, Naomi Louise Montgomery, W. Va.  
A.B. (New River State College), English.
- Barber, Daniel Clyde, Jr. Clio, S. C.  
A.B. (The Citadel), Education.
- Barber, Veva Alberta Orrick, Mo.  
B.S. (Central Missouri State Teachers College), English.
- Barr, Coke Lafyles Jacksonville, Fla.  
B.S. (Florida Southern College), Education.
- Barr, Leon Vincent S. Renovo, Pa.  
B.S. (Lock Haven State Teachers College), Education.
- Batten, Alice Moffitt Charlotte, N. C.  
A.B. (Duke), Education.
- Batten, Anne Jackson Charlotte, N. C.  
A.B. (Queens-Chicora College), Education, English.
- Baum, Rhoda May Kitty Hawk, N. C.  
A.B. (Greensboro College), Chemistry.
- Baxter, James Edward Meridian, Miss.  
A.B. (Millsaps College), Political Science, Education.
- Beam, Joshua Paul Gaffney, S. C.  
A.B. (Furman), Education, Economics.
- Beamer, Celestine Marie Irvin Falls, Idaho  
B.S. (Duke), Pharmacology.
- Beck, Clifford Keith Salisbury, N. C.  
A.B. (Catawba College), Physics.
- Beck, Flora Elizabeth Chattanooga, Tenn.  
A.B. (University of Chattanooga), English, Education.
- Bee, Carl Edward Clymer, Pa.  
B.S. (Indiana State Teachers College), Education.
- Beeker, Henry Judson Statesville, N. C.  
B.S. (Appalachian State Teachers College), History.
- Bennett, Johnnie Stein Winder, Ga.  
A.B. (Maryville College), History.

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|---|----------------------|
| Berry, Christine  | Jackson, Miss.       |
| B.S. (Mississippi State College for Women), Education, Economics. |                      |
| Biggerstaff, Frank Malcolm  | Forest City, N. C.   |
| A.B. (Duke), Education.   |                      |
| Bigham, Virgil Lee, Jr.   | Pontotoc, Miss.      |
| A.B. (Mississippi College), Education, Economics.                 |                      |
| Bird, Imogen  | Washington, D. C.    |
| A.B. (Mary Baldwin College), Education.                           |                      |
| Bird, Ralph Sidney  | Athens, W. Va.       |
| B.S. (Morris Harvey College), Education.                          |                      |
| Bland, William Le Roy   | Bellwood, Pa.        |
| A.B. (Arkansas State Teachers College), Economics.                |                      |
| Blitch, Mary Margaret   | Statesboro, Ga.      |
| B.S. (South Georgia Teachers College), English.                   |                      |
| Bloom, Robert Louis   | Tyrone, Pa.          |
| B.S. (Shippensburg State Teachers College), History.              |                      |
| Boal, Ruth Beatrice   | Huntingdon, Pa.      |
| A.B. (Juniata College), Romance Languages.                        |                      |
| Boatwright, Eleanor Miot  | Augusta, Ga.         |
| B.S. (Columbia), History.   |                      |
| Bobo, William Pervy   | Eupora, Miss.        |
| A.B. (Mississippi College), Education.                            |                      |
| Boland, Joseph Bethro   | Iaeger, W. Va.       |
| A.B. (Marshall College), Education.                               |                      |
| Bolling, Louise Porter  | Danville, Ky.        |
| B.S. (University of Kentucky), Education.                         |                      |
| Boomhour, Elizabeth Gregory                                       | Raleigh, N. C.       |
| A.B. (Meredith College), A.M. (Cornell), Botany.                  |                      |
| Boswell, Albert Sidney  | Brunswick, Ga.       |
| B.S. (South Georgia Teachers College), Education.                 |                      |
| Bower, Sally Fay  | Mullens, W. Va.      |
| A.B. (Concord State Teachers College), English.                   |                      |
| Bowman, Bernice Claire  | Miami, Fla.          |
| A.B. (Union College), English, Education.                         |                      |
| Boyd, Maston Wade, Jr.  | Gray Court, S. C.    |
| A.B. (Furman), Education.   |                      |
| Boyer, Charles Victor   | Huntington, W. Va.   |
| A.B. (Marshall College), Education.                               |                      |
| Boyer, Luther Karl  | Mt. Carmel, Pa.      |
| A.B. (Susquehanna), Education.                                    |                      |
| Bramlette, Nancy Lucile   | Greenville, S. C.    |
| A.B. (Winthrop College), English.                                 |                      |
| Brewster, James Pendleton   | Newnan, Ga.          |
| A.B. (Duke), Mathematics, Education.                              |                      |
| Brewton, Maggie   | Reidsville, Ga.      |
| A.B. (Bessie Tift College), Education.                            |                      |
| Bridges, Daniel Moody   | Rutherfordton, N. C. |
| A.B. (Wake Forest College), Economics.                            |                      |
| Bridy, Charles Louis  | Mt. Carmel, Pa.      |
| A.B. (Mount St. Mary's College), Education.                       |                      |

- Bright, Robert Dietrich  
A.B. (Dartmouth College), Chemistry. Passaic, N. J.
- Brogden, Rebecca Muriel  
A.B. (Duke), Education. Durham, N. C.
- Brookes, Elizabeth Gladys  
A.B. (Salem College), English. Winston-Salem, N. C.
- Brown, George Erwin  
A.B. (Piedmont College), Education. Siloam, Ga.
- Brown, William Geddes  
B.S. (Washington and Jefferson College), Education, Economics. Pittsburgh, Pa.
- Bruce, William Thornton  
A.B. (Furman), Education. Greenville, S. C.
- Bryan, Colgan Hobson  
B.S. (University of South Carolina), Education. Trenton, S. C.
- Bryant, Carlyle Rupert  
A.B. (Furman), English, Education. Greenville, S. C.
- Burgess, John Evans  
A.B. (Emory), History, Education. Ashburn, Ga.
- Burney, Cleo Norwood  
A.B. (Florida State College for Women), English. Plant City, F'a.
- Burney, James Arthur  
B.S. (Florida Southern College), Education, Mathematics. Plant City, Fla.
- Burton, Anne Seixas MacGlashan  
A.B. (Hollins College), English. Stoneville, N. C.
- Bush, Marion  
A.B. (Shorter College), A.M. (University of Georgia), English. Barnesville, Ga.
- Bussell, Wilsie Florence  
A.B. (Duke), Romance Languages. Durham, N. C.
- Butts, Virginia Frye  
A.B. (West Virginia), English. Harper's Ferry, W. Va.
- Caldwell, Jonathan Quarmby  
A.B. (University of Florida), Education. De Land, Fla.
- Camp, Maryella  
A.B. (Wesleyan College), English. Newnan, Ga.
- Campbell, Carrie Margaret Smith  
A.B. (Marshall College), Education. Kenova, W. Va.
- Campbell, Robert Earle  
A.B. (Marshall College), Education. Summersville, W. Va.
- Campbell, Walter Hoodenpyl  
B.S. (Murfreesboro State Teachers College), Education, History. Woodbury, Tenn.
- Carlton, Wellborn Chaudoin  
A.B. (Mercer), Education. Beaufort, N. C.
- Carney, James Joseph, Jr.  
A.B., A.M. (Harvard), Economics. W. Somerville, Mass.
- Carruthers, Emily Lee  
A.B. (Juniata College), English. Mount Union, Pa.
- Carson, Mae Jones  
A.B. (Greenville Woman's College of Furman University), History. Gaffney, S. C.
- Carson, Mary Ellen  
B.S. (Shippensburg State Teachers College), Education. Chambersburg, Pa.



Carson, Robert Brice A.B. (Erskine College), Education.	Moreland, Ga.
Carter, Judson McGilvray A.B. (Emory and Henry College), Education.	Johnson City, Tenn.
Cassell, Hugh Kent B.S. (Mercer), Education, Economics.	Big Stone Gap, Va.
Casto, Margaret Atkinson A.B. (Marshall College), Mathematics, Education.	Huntington, W. Va.
Chandler, Minnie Elizabeth A.B. (Duke), Education.	Durham, N. C.
Chapman, Roberta Lenore A.B. (Marshall College), Education.	Ceredo, W. Va.
Cherry, Nancy A.B. (Winthrop College), English.	Rock Hill, S. C.
Chester, William A. A.B. (Emory), History.	Hawkinsville, Ga.
Clark, Margaret Rebecca B.S. (Miami), English, Sociology.	Oxford, Ohio
Clark, Vennie Matilda B.S. (South Georgia Teachers College), Sociology.	La Grange, Ga.
Clarke, Verna Edwards B.S. (Greensboro College), Education.	Asheville, N. C.
Clegg, Berniece B.S. (George Peabody College for Teachers), English.	Mathiston, Miss.
Clegg, Ruth A.B. (Grenada College), History.	Mathiston, Miss.
Cleveland, Opal Jean A.B. (University of Kentucky), English.	Fort Meade, Fla.
Cleveland, Vela Howell A.B. (University of Kentucky), Zoology.	Fort Meade, Fla.
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- Wertz, Roy Albert Frackville, Pa.  
A.B. (Muhlenberg College), Mathematics.
- Westmoreland, Aliceteen Thomasville, N. C.  
A.B. (Woman's College of the University of North Carolina), Education.
- Wetmore, Thomas Hall, Jr. Little River, S. C.  
A.B. (Lincoln Memorial), English.
- Whelchell, Laura Darwin Gaffney, S. C.  
A.B. (Limestone College), English, Romance Languages.
- White, Frank Dudley Linden, Va.  
A.B. (Randolph-Macon College), Education.
- Whitener, Catherine Viola Salisbury, N. C.  
A.B. (Catawba College), English.
- Whitener, Margaret Virginia Salisbury, N. C.  
B.S. (Catawba College), Education.
- Whitlatch, Lewis Wade Monongahela, Pa.  
B.S. (California State Teachers College), Education, History.
- Whitman, William Tate Charleston, S. C.  
A.B., A.M. (Duke), Economics.
- Wiebel, George Clement Hagerstown, Md.  
A.B. (Lynchburg College), Education.
- Wiggins, Elizabeth Lewis Holly Hill, S. C.  
A.B. (Winthrop College), English.
- Wiggins, James Wilhelm Dublin, Ga.  
B.S. (South Georgia Teachers College), History, Sociology.
- Wilcox, Kathryn Johnson Clearwater, Fla.  
A.B. (John B. Stetson), Education.
- Wilkes, Frances Elizabeth Adel, Ga.  
A.B. (Georgia State Women's College), History, Education.
- Williams, Elizabeth Rose Iva, S. C.  
A.B. (Erskine College), English, Education.
- Williams, James Wesley Greensboro, N. C.  
A.B. (Duke), B.S. (Georgia School of Technology), Political Science.
- Williams, Margaret Lawrence Memphis, Tenn.  
B.S. (Memphis State Teachers College), Education.
- Williams, Olan Yarnall California, Pa.  
B.S. (California State Teachers College), Education, English.
- Williams, Roger Augustus Abbeville, S. C.  
A.B. (Erskine College), Education.
- Williams, Vivian Lois Kilmichael, Miss.  
B.S. (Mississippi Delta State Teachers College), Education.
- Wilson, Elizabeth Andrews Tampa, Fla.  
A.B. (Florida State College for Women), History.
- Wilson, Valda Belle Fairmont, W. Va.  
A.B. (Fairmont State Teachers College), Education.
- Wilson, Virginia Ellen Waynesburg, Pa.  
B.S. (Waynesburg College), Education.

Wimberly, Rosamonde Ramsay	Spartanburg, S. C.
A.B., A.M. (University of South Carolina), Sociology.	
Winer, Ada Mae	Roscoe, Pa.
B.S. (California State Teachers College), English, Education.	
Winship, Florence Wood	Macon, Ga.
A.B. (Mercer), Education.	
Wollet, Charles Elmer	Statesboro, Ga.
A.B. (Newberry College), Economics.	
Wonder, Craig Earl	Martinsburg, Pa.
A.B. (Juniata College), English.	
Wood, Mary Rose	Jetersville, Va.
B.S. (Farmville State Teachers College), Mathematics, English.	
Woodruff, Carmen Moore	Walnut Grove, Ga.
A.B. (Georgia State Teachers College), Education, English.	
Woodruff, Margaret	Johnson City, Tenn.
B.S. (East Tennessee State Teachers College), Education, History.	
Worley, Claude	Surveyor, W. Va.
A.B. (Concord State Teachers College), Education, Sociology.	
Wylie, Claude	Gap Mills, W. Va.
A.B. (Concord State Teachers College), Education, Sociology.	
Wynn, Lawrence	Milledgeville, Ga.
A.B. (Emory), English.	
Yager, Charles Monroe	Baltimore, Md.
B.S. (University of Maryland), Education.	
Young, Hobart McKinley	Bluefield, W. Va.
A.B. (Concord State Teachers College), Education.	
Young, Mabel Dorothy	Ellwood City, Pa.
A.B. (Geneva College), Education, English.	
Young, William Coleman	Georgetown, S. C.
A.B. (College of Charleston), History.	
Zarfoss, Lewis Harold	Columbia, Pa.
B.S. (Millersville State Teachers College), Education, Economics.	
Zarger, Helen Witherspoon	Marion, Pa.
B.S. (Shippensburg State Teachers College), Education.	
Zimmerman, Carroll Louis	Washington, D. C.
A.B. (Miami), A.M. (Duke), Physics.	
Zimmerman, Edna Elizabeth	Harrisburg, Pa.
B.S. (Shippensburg State Teachers College), Education.	

### SUMMER OF 1937; SECOND TERM

Barnhardt, Zeb Glenn	Oakboro, N. C.
A.B. (Duke), Education.	
Baseman, Hazel Henrietta	Hutchinson, Minn.
B.Ed. (St. Cloud State Teachers College), Education.	
Batrus, Iva Genevieve	Altoona, Pa.
B.S. (Carnegie Institute of Technology), Education.	
Beuchler, Stanley Charles	Llewellyn, Pa.
A.B. (Gettysburg College), History.	
Blackwell, James Harry	Laurelton, Pa.
B.S., M.Ed. (Pennsylvania State College), Education.	

- Bolander, Dorothy Lancaster, Pa.  
B.S. (Millersville State Teachers College), History, Education.
- Bonner, James Neel Due West, S. C.  
A.B. (Erskine College), A.M. (Columbia), Education.
- Buck, Ida Hermine Altoona, Pa.  
A.B. (Catawba College), Education.
- Buckwalter, Kathryn Mary Lancaster, Pa.  
B.S. (Millersville State Teachers College), English.
- Buller, Laura Eshleman Lancaster, Pa.  
B.S. (Millersville State Teachers College), English.
- Butler, Carrie Elizabeth Montgomery, Ala.  
A.B. (Huntingdon College), Education.
- Carson, Louise Geddings Beaufort, S. C.  
A.B. (Winthrop College), Education.
- Chatfield, Carolyn Lucinda Pleasant View, Ky.  
B.S. (Union College), History.
- Countiss, Arthur Allen Abingdon, Va.  
A.B. (Emory and Henry College), Education.
- Cox, Grace Wiseman Honea Path, S. C.  
A.B. (Coker College), Education, History.
- Crandall, Gilbert Albert Annapolis, Md.  
A.B. (St. Johns College), Education.
- Crowe, Frank Chapman Tampa, Fla.  
A.B. (Florida Southern College), Education.
- Daher, Joseph George Bridgeport, Pa.  
B.S. (Juniata College), Education, Mathematics.
- Darden, Robert Bright Lawrenceville, Va.  
A.B. (Randolph-Macon College), Education.
- Dew, Joanna Tampa, Fla.  
A.B. (Florida State College for Women), History.
- Dixon, John Harrison Church Creek, Md.  
A.B. (Western Maryland College), Education.
- Douglass, William Patterson Iselin, Pa.  
B.B.A. (Westminster College), Education.
- Dunbar, Betty Hammond Augusta, Ga.  
A.B. (Converse College), Mathematics, Education.
- Edwards, Allen Braxton Danville, Ky.  
A.B. (Centre College), Economics.
- Eley, Annie Clara Moss Point, Miss.  
A.B. (Judson College), Mathematics.
- Finlay, William Pittsburgh, Pa.  
B.S. (University of Pittsburgh), Economics, Education.
- Finley, Thomas Rothwell Laurens, S. C.  
A.B. (University of South Carolina), History.
- Flanders, Horace Marion, Jr. Soperton, Ga.  
A.B. (University of Georgia), Education.
- Frear, Edgar Paul Montrose, Pa.  
B.S. (Mansfield State Teachers College), Education.
- Fuller, John Herman Milford, Pa.  
B.S. (East Stroudsburg State Teachers College), Education.



- George, Charles William  
B.S. (Ursinus College), Physics. Shenandoah, Pa.
- Gillespie, William Allen  
A.B. (Lynchburg College), Mathematics. Lynchburg, Va.
- Gillingham, Samuel Wilson  
A.B. (Maryville College), Education. Glenside, Pa.
- Gillis, Alma Louise  
B.S. (Florida State College for Women), Education. Wauchula, Fla.
- Godbold, John Jacob  
A.B. (University of South Carolina), Education. Marion, S. C.
- Gray, Lima Jane  
A.B. (Mississippi State College for Women), Education. Coffeerville, Miss.
- Hamblin, Clarissa Wardwell  
A.B. (Bucknell), English. Lewisburg, Pa.
- Hand, Wilson Bowen  
B.S. (Rutgers University), B.C.S. (Rider College), Education. Bridgeton, N. J.
- Harris, Isabella Deas  
A.B. (Wesleyan College), A.M. (Duke), English. Cordele, Ga.
- Haynie, Mary Elizabeth  
A.B. (Winthrop College), Education. Belton, S. C.
- Hendren, Albert Lee  
A.B. (Duke), Mathematics. Charlotte Court House, Va.
- Hernick, Michael Edward  
A.B. (Western Maryland College), Education. Brandywine, Md.
- Hill, Robert Brandon  
B.S. (Grove City College), Education. Beaver Falls, Pa.
- Hollinger, Lester Stoner  
B.S. (Millersville State Teachers College), Education. Manheim, Pa.
- Holton, Thomas Alfred  
A.B. (Duke), Education. Miami, Fla.
- Horton, Benjamin Tyler  
A.B. (Carson-Newman College), History. Duffield, Va.
- Howell, Thelma  
A.B., A.M. (Duke), Zoology. Macon, Ga.
- Hughes, John David  
B.S. (Lebanon Valley College), Education. Catawissa, Pa.
- Hunt, Melba Cleo  
A.B. (Meredith College), Zoology. Apex, N. C.
- Jacks, William LeRoy  
B.S. (Lebanon Valley College), Zoology. Hummelston, Pa.
- Kennedy, Vincent Morris  
B.S., LL.B. (Duquesne), Education. Jeannette, Pa.
- Kidd, Rex Charles  
B.S. (East Tennessee State Teachers College), Mathematics, Education. Maryville, Tenn.
- Kinder, Erma Lynnwood  
B.S. (East Radford State Teachers College), Education. Radford, Va.
- Kramer, Miriam Loretta  
A.B. (Wilson College), Economics. Collingswood, N. J.
- Kuykendall, Susan Parsons  
A.B. (West Virginia), Education. Romney, W. Va.

- Lacey, Mary Frances  
A.B. (Mississippi State College for Women), History.      Kosciusko, Miss.
- Landis, Arline Naomi  
B.S. (Millersville State Teachers College), Education.      Lancaster, Pa.
- Lea, Jenny Lovell  
A.B. (University of Chattanooga), History.      Chattanooga, Tenn.
- Leach, James Michael  
B.S. (University of Pittsburgh), Education.      South Fork, Pa.
- Light, Merritt Mette  
B.S. (Mansfield State Teachers College), Education.      Rush, Pa.
- Lipscomb, Arthur McLaurine, Jr.  
A.B. (Virginia Military Institute), English.      Richmond, Va.
- Long, Hazel Amanda  
A.B. (Georgia State College for Women), Education.      Bremen, Ga.
- Looney, Annie Warren  
A.B. (Bethel College), Education.      Paris, Tenn.
- Lynch, Clyde Clifford  
B.S. (Lock Haven State Teachers College), A.M. (Columbia), Education.      Port Allegany, Pa.
- McAllister, Birdie  
A.B. (University of Georgia), Botany.      Miami, Fla.
- McCormac, Duncan Leon  
A.B., A.M. (University of South Carolina), Education.      Columbia, S. C.
- McCullough, Raymond Oliver, Jr.  
B.S. (Washington College), Education.      Friendsville, Md.
- McGraw, Naomi Irene  
A.B. (Marshall College), Mathematics, Education.      Green Sulphur Springs, W. Va.
- Matchett, Ruth  
B.S. (Glassboro State Teachers College), Economics, Education.      Moorestown, N. J.
- Mitchim, Louise Whitley  
B.S. (Mississippi Delta State Teachers College), English.      Ruleville, Miss.
- Morgan, Evelyn Verna  
A.B. (New Jersey College for Women), History, Education.      Cranford, N. J.
- Noll, Robert Roscoe  
B.S. (Pennsylvania State College), Education, History.      Llewellyn, Pa.
- Norton, Oswald Ailsworth  
A.B. (Marshall College), Zoology.      Deltaville, Va.
- Obel, Arthur Anthony  
B.S. (St. Thomas College), M.S. (University of Alabama), Education.      Throop, Pa.
- O'Brian, William Hawkins  
A.B. (Wake Forest College), History.      Oxford, N. C.
- Pool, Gladys Cooper  
B.S. (Millersville State Teachers College), History, Education.      Leacock, Pa.
- Powell, Woodrow Wilson  
B.S. (South Georgia Teachers College), History, English.      Register, Ga.
- Pratt, George Thomas  
A.B. (Washington College), History, Education.      Queenstown, Md.
- Ross, George Robert  
A.B. (Grove City College), Education.      Library, Pa.
- Ross, Mary Elizabeth  
B.S. (University of Pittsburgh), Education.      Library, Pa.

- Rossell, Margaret Irving  
A.B. (University of New Hampshire), English. Charleston, S. C.
- Rothaar, Frendly Kathryn  
B.M. (Grove City College), Education. Library, Pa.
- Saez, Mercedes Angeles  
A.B. (Temple), A.M. (University of Puerto Rico), English. Santurce, Puerto Rico
- Sherry, John Joseph  
B.S. (Temple), Education. Mahanoy City, Pa.
- Shoemaker, Katherine Elizabeth  
B.S. (Shippensburg State Teachers College), History, English. Harrisburg, Pa.
- Shull, Paul Eugene  
B.S. (Shippensburg State Teachers College), Education. Lewistown, Pa.
- Simon, John Anthony  
B.S. (Waynesburg College), Education. Braddock, Pa.
- Slacum, Emerson Phillips  
B.S. (Washington College), Education. Cambridge, Md.
- Sleichter, Martha Beryl  
B.S. (Shippensburg State Teachers College), History, English. Shippensburg, Pa.
- Slone, Alice Lee  
B.S. (Florida State College for Women), Education. Mascotte, Fla.
- Smith, Malcolm Leo  
A.B. (Concord State Teachers College), Education. Bluefield, W. Va.
- Snader, Levi Hummer  
B.S. (Albright College), Education. Wyalusing, Pa.
- Snellgrove, Harold Sinclair  
A.B. (Duke), History. Meridian, Miss.
- Snyder, Anna Jane  
A.B. (Juniata College), English. Huntingdon, Pa.
- Snyder, Donald Francis  
B.S. (East Stroudsburg State Teachers College), Education. Mohrsville, Pa.
- Stanford, Herman Tyndall  
B.S., A.M. (University of Alabama), Education. Oxford, Ala.
- Stanford, Terrell Pace  
B.S. (University of Alabama), Education. Oxford, Ala.
- Sterling, Susan Elizabeth  
B.S. (New York), History, Education. Roselle, N. J.
- Stout, June Thompson  
B.S. (Carnegie Institute of Technology), Education. Coraopolis, Pa.
- Strom, Samuel Thaddeus  
A.B. (Furman), Education, English. Ward, S. C.
- Stypkoski, Peter Paul  
A.B. (Waynesburg College), Education. Braddock, Pa.
- Tate, Rachel Clara  
B.S. (Mississippi Delta State Teachers College), Education. Sumner, Miss.
- Thompson, Ethel Mae  
A.B. (Geneva College), Education. New Brighton, Pa.
- Trimble, William Ellwood  
B.S. (West Chester State Teachers College), Education. Kingston, Pa.
- Upshaw, Margaret Adeline  
A.B. (University of Tennessee), History, English. Asheville, N. C.

Walker, James Herbert	Sumner, Miss.
B.S. (Mississippi Delta State Teachers College), Education.	
Watson, Emily Montecal	Carrollton, Miss.
B.S. (Mississippi Delta State Teachers College), Education.	
Weir, John Blackwood	Moosic, Pa.
B.S. (West Chester State Teachers College), Economics.	
Wilhite, Arthur Bolton	Lake Placid, Fla.
A.B. (Erskine College), Education.	
Williams, Charlet Smith	Indiana, Pa.
B.S. (University of Pittsburgh), Economics.	
Williams, Claire Louise	Jacksonville, Fla.
A.B. (Florida State College for Women), Education.	
Williams, Pennie	Brunson, S. C.
A.B. (Newberry College), Education.	
Wilson, Joseph Bobula	Central City, Pa.
B.S. (Juniata College), Education, History.	
Winn, Mary Ruth	Lawrenceville, Va.
B.S. (Farmville State Teachers College), Economics.	
Wolfe, Quentin Donald	Pittsfield, Pa.
B.S. (Lock Haven State Teachers College), Economics.	
Worley, William Carson	Jacobus, Pa.
A.B. (Gettysburg College), Education.	
Yost, Merrill Clifford	Tamaqua, Pa.
B.S. (Gettysburg College), Education.	
Young, Leslie Clarence	Hagerstown, Md.
A.B. (Lynchburg College), Education, History.	
Yowell, Robert William	Peola Mills, Va.
B.S. (University of Richmond), Education.	

## SUMMER OF 1937; THIRD TERM

Aarons, Isadore Alfred	Savannah, Ga.
B.S. (University of Chicago), Education.	
Adams, William Marvin	Ackerman, Miss.
A.B. (Mississippi College), Education, History.	
Allaben, Sara	Thomson, Ga.
A.B. (Georgia State College for Women), Romance Languages.	
Anderson, Marcia Lee	Durham, N. C.
A.B. (Bryn Mawr College), A.M. (Duke), English.	
Arnold, Mary Elva	Groveland, Fla.
A.B. (Rollins College), Education.	
Bealle, John Wynne	Sardis, Miss.
B.S. (Millsaps College), Education, Economics.	
Beam, Joshua Paul	Gaffney, S. C.
A.B. (Furman), Education.	
Berry, Diltz North	Syracuse, N. Y.
B.S. (Syracuse), Education.	
Bird, Imogen	Washington, D. C.
A.B. (Mary Baldwin College), Education.	
Birriolo, Francis Adrian	Blossburg, Pa.
B.S. (Mansfield State Teachers College), English, Education.	

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| Boatwright, Eleanor Miot<br>B.S. (Columbia), History, Sociology.   | Augusta, Ga.           |
| Bogges, William Randolph<br>A.B. (Concord State Teachers College), Botany.   | Oakvale, W. Va.        |
| Bondurant, Agnes Meredith<br>B.S. (Farmville State Teachers College), English.   | Rice, Va.              |
| Boswell, Albert Sidney<br>B.S. (South Georgia Teachers College), Education.  | Brunswick, Ga.         |
| Bramlette, Nancy Lucile<br>A.B. (Winthrop College), English, Education.  | Greenville, S. C.      |
| Bridges, Daniel Moody<br>A.B. (Wake Forest College), Education.  | Rutherfordton, N. C.   |
| Burgess, John Evans<br>A.B. (Emory), History, Education.   | Ashburn, Ga.           |
| Burton, Anne Seixas MacGlashan<br>A.B. (Hollins College), English.   | Stoneville, N. C.      |
| Butler, Allen Dexter<br>A.B., A.M. (University of North Carolina), English.  | Liberty, N. C.         |
| Butler, Carrie Elizabeth<br>A.B. (Huntingdon College), Education.  | Montgomery, Ala.       |
| Butts, Virginia Frye<br>A.B. (West Virginia), English.   | Harper's Ferry, W. Va. |
| Byrd, Roy David<br>A.B. (Glenville State Teachers College), Education.   | Falling Rock, W. Va.   |
| Caldwell, Jonathan Quarmby<br>A.B. (University of Florida), History.   | DeLand, Fla.           |
| Campbell, Carrie Margaret Smith<br>A.B. (Marshall College), Education.   | Kenova, W. Va.         |
| Campbell, Robert Earle<br>A.B. (Marshall College), Education.  | Summersville, W. Va.   |
| Carney, James Joseph, Jr.<br>A.B., A.M. (Harvard), Economics.  | W. Somerville, Mass.   |
| Carruth, James Walton<br>B.S. (South Georgia Teachers College), Education.   | Collegeboro, Ga.       |
| Carson, Mae Jones<br>A.B. (Greenville Woman's College of Furman University), History, Education.                         | Gaffney, S. C.         |
| Cassell, Hugh Kent<br>B.S. (Mercer), Education, Economics.   | Big Stone Gap, Va.     |
| Casto, Margaret Atkinson<br>A.B. (Marshall College), Education, Mathematics.   | Huntington, W. Va.     |
| Chapman, Martha Gertrude<br>B.S. (Florida State College for Women), A.M. (George Peabody College for Teachers), English. | Winter Garden, Fla.    |
| Charlton, Harriette Virginia<br>A.B. (Concord State Teachers College), English.  | Matooka, W. Va.        |
| Cobb, Jacob Ernest<br>A.B. (University of North Carolina), Education.  | Lenoir, N. C.          |
| Cobb, Roy Douglas<br>A.B. (Western Kentucky State Teachers College), English, History.                                   | Jeffersontown, Ky.     |
| Cole, Elfrieda Louise<br>A.B. (Winthrop College), English.   | Greer, S. C.           |



- Collins, Ethelene  
B.S. (Mississippi Delta State Teachers College), Education, Mathematics.  
Pace, Miss.  
Everglades City, Fla.
- Conoley, Rudolph Evander  
A.B. (Davidson College), History, Sociology.
- Cooper, Frances Harlee  
A.B. (Carson-Newman College), History, English.  
Spartanburg, S. C.
- Corry, Annie Belle  
A.B. (Flora Macdonald College), Mathematics.  
Covington, Ga.
- Couch, Marie Love  
A.B. (Duke), Education.  
Durham, N. C.
- Covington, Mary Faison  
A.B. (Duke), English.  
Thomasville, N. C.
- Cox, Ella Mae  
A.B. (Furman), English.  
Simpsonville, S. C.
- Curry, Wayne Burbage, Jr.  
A.B. (Bowling Green College of Commerce), Education.  
Delbarton, W. Va.
- Cuthrell, Mabel Claire  
B.S. (Catawba College), History.  
Lexington, N. C.
- Davidson, Mary Frances  
B.S. (West Virginia), Education.  
Middlesboro, Ky.
- Davis, Alberta Lee  
A.B. (Florida State College for Women), Romance Languages.  
Pensacola, Fla.
- Dean, Lillian Alberta  
B.S. (Mississippi Delta State Teachers College), Education.  
Cleveland, Miss.
- Dedmon, Robert Owens  
A.B. (Maryville College), Botany.  
Buckhorn, Ky.
- DeLancy, Frances Priscilla  
A.B., A.M. (West Virginia), Political Science.  
Morgantown, W. Va.
- Demorest, Merrick Albert  
B.S. (Otterbein College), Education.  
Jacksonville, Fla.
- Depew, Arthur McKinley  
A.B. (Milligan College), A.M. (Duke), Political Science, Sociology.  
W. Palm Beach, Fla.
- de Treville, Marie Louise  
A.B. (Winthrop College), English, Education.  
Walterboro, S. C.
- De Velbis, Evelyn Grevada  
A.B. (Waynesburg College), English.  
Waynesburg, Pa.
- Dillard, Kathryn  
B.S. (George Peabody College for Teachers), English.  
Nichols, S. C.
- Doby, Julia Lillian  
A.B. (Woman's College of the University of North Carolina), Psychology.  
Newsom, N. C.
- Douglas, Jessie Owens  
A.B. (Winthrop College), History.  
Winnsboro, S. C.
- Douglas, Nelle Chappell  
A.B. (Winthrop College), Education.  
Winnsboro, S. C.
- Dowdell, Mary Will  
A.B. (Florida State College for Women), Sociology.  
Wimauma, Fla.
- Dozier, Louise Agnes  
A.B. (Georgia State Teachers College), Education.  
Thomson, Ga.
- Dozier, Vernon Elliott  
A.B. (Mercer), Education.  
Bartow, Fla.

- Dribben, William Barnett  
A.B. (Millsaps College), Education. Cleveland, Miss.
- DuBose, Charles Gerald  
A.B. (Wofford College), Education, English. Bishopville, S. C.
- Durrance, Samuel Parke, Jr.  
A.B. (Harding College), Romance Languages, Education. Avon Park, Fla.
- Echerd, Eugenia Mae  
A.B. (Lenoir-Rhyne College), Education. Taylorsville, N. C.
- Edmundson, Mary Lois  
B.S. (University of Cincinnati), Education, English. Beckley, W. Va.
- Edwards, Allen David  
B.S. (Western State Teachers College), Ph.M. (University of Wisconsin), Sociology. Washington, D. C.
- Erckman, William James  
B.S. (College of Charleston), Mathematics. Mt. Pleasant, S. C.
- Estridge, Ruth Elizabeth  
A.B. (Winthrop College), English, Education. Kershaw, S. C.
- Evans, Florrie Inez  
B.S. (Georgia State College for Women), English. Auburndale, Fla.
- Feinstein, Paul Sidney  
B.S. (Eastern Kentucky State Teachers College), History. Corbin, Ky.
- Fielder, Margaret Frances  
B.S. (Harrisonburg State Teachers College), Mathematics. Charleston, W. Va.
- Fisher, Cleo Edith  
B.S. (East Tennessee State Teachers College), Education. Johnson City, Tenn.
- Fitzgerald, Mary Frances  
A.B. (Woman's College of the University of North Carolina), Education. Lexington, N. C.
- Flanders, Bertram Holland  
A.B., A.M. (Emory), English. Oxford, Ga.
- Fletcher, Mildred Jane  
B.S. (Florida State College for Women), History. Williston, Fla.
- Folger, Ruth Marinda  
A.B. (Georgia State Women's College at Valdosta), Education, History. Savannah, Ga.
- Frank, Letitia Morehouse  
A.B. (Winthrop College), Romance Languages, Education. Adams Run, S. C.
- Frazer, Emmet Manly  
A.B. (Penn College), Religion. Richmond, Va.
- Fruth, Jacob Richard  
A.B. (Geneva College), History, Education. Freedom, Pa.
- Fugate, Watkins  
A.B. (University of Richmond), Education. Lynchburg, Va.
- Gaines, Marvin Wilson  
A.B. (Emory), History, Political Science. Grantville, Ga.
- Gaulding, Roxie Geraldine  
B.S. (Memphis State Teachers College), English. Memphis, Tenn.
- Gay, Roland Lafayette  
B.S. (Wake Forest College), M.S. (North Carolina State College), Mathematics. Wake Forest, N. C.
- George, Charles William  
B.S. (Ursinus College), Mathematics. Shenandoah, Pa.
- Glenn, Helen Catharine  
B.S. (Slippery Rock State Teachers College), History, Education. E. Butler, Pa.

- Goertz, Clare Marion Sanford, Fla.  
A.B. (Florida State College for Women), Education.
- Goldstein, Samuel Salem, N. J.  
A.B. (Duke), Education.
- Gray, Charles Ally Holly Hill, S. C.  
A.B. (University of South Carolina), Education.
- Griffin, Joseph Earle Charleston, S. C.  
B.S. (The Citadel), LL.B. (University of South Carolina), Political Science.
- Guinn, Mary Frances McCondy, Miss.  
B.S. (Millsaps College), Mathematics.
- Halsall, Earl Buggle Charleston, S. C.  
A.B. (College of Charleston), Political Science.
- Hamsher, Carl Miller Mechanicsburg, Pa.  
A.B. (Gettysburg College), English.
- Hanes, Virginia Lee S. Brownsville, Pa.  
A.B. (Bethany College), English.
- Harris, Arthur Small, Jr. Jacksonville, Fla.  
A.B. (Presbyterian College), Education.
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A.B. (Wesleyan College), English.
- Harris, Nellie Marguerite Bunn, N. C.  
A.B. (East Carolina Teachers College), Sociology.
- Hartness, Edna Buree Filbert, S. C.  
A.B. (Erskine College), English.
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- Haynes, Mary Della Kosciusko, Miss.  
A.B. (Blue Mountain College), Education.
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A.B. (Lebanon Valley College), Mathematics.
- Henley, Mary Clifton Raleigh, N. C.  
A.B. (Meredith College), Romance Languages.
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A.B. (Western Maryland College), Education.
- Hickey, Robert Louis Johnson City, Tenn.  
B.S. (East Tennessee State Teachers College), English.
- Hightower, John Devereaux Pine Bluff, Ark.  
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A.B. (West Virginia), English.
- Hill, Madeline Mitchells, Va.  
B.S. (Farmville State Teachers College), Botany.
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- Hodges, Julius Barney Guyton, Ga.  
B.S. (South Georgia Teachers College), History.

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| Hoffman, Ira Penn<br>B.S. (Bucknell), Education.   | Belvidere, N. J.           |
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| Johnson, Margaret Crile<br>B.S. (Florida State College for Women), Zoology.              | Gainesville, Fla.          |
| Johnson, Mary Louise<br>A.B. (Wesleyan College), History.                                | Macon, Ga.                 |
| Johnson, Oscar Floyd<br>A.B. (Davidson College), Mathematics.                            | Beverly, Mass.             |
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- Johnston, Robert Ward Leesburg, Fla.  
A.B. (Davidson College), Education.
- Joiner, Oscar Hardy Vidalia, Ga.  
B.S. (South Georgia Teachers College), Education, History.
- Jones, Elijah Newman Holland, Va.  
A.B. (Elon College), Psychology.
- Jones, William Robert Neon, Ky.  
B.S. (Morehead State Teachers College), Education.
- Jordan, Gladys Lafayette, La.  
A.B. (Southwestern Louisiana Institute), Education.
- Kalencki, Wanda Lois Bristol, Pa.  
B.S. (Millersville State Teachers College), Education.
- Keene, Ellis Leaman Quarryville, Pa.  
B.S. (Millersville State Teachers College), Education.
- Kelley, Joseph Jackson Atlanta, Ga.  
Ph.B. (Emory), Education.
- Kelley, J. T. Okeechobee, Fla.  
A.B. (Kentucky Wesleyan College), Education, Psychology.
- Kelley, William Arlington, Jr. Moultrie, Ga.  
A.B. (Duke), Education.
- Kelly, Edward Hetherton Pratt, W. Va.  
A.B. (Marshall College), History.
- Kilbourne, Mary Elizabeth Montclair, N. J.  
A.B. (Keuka College), Romance Languages, Education.
- Klein, James Raymond Durham, N. C.  
A.B. (Duke), Biochemistry.
- Knape, Arthur John Defiance, Ohio  
B.S. (Bowling Green State), Education.
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A.B. (Georgia State College for Women), Education, History.
- Kochenour, Earl Franklin York, Pa.  
B.S. (Gettysburg College), Education.
- Lacey, Mary Frances Kosciusko, Miss.  
A.B. (Mississippi State College for Women), Political Science.
- Ladner, Heber Austin Lumberton, Miss.  
B.S. (Millsaps College), Education.
- Lambert, James Alfred Birmingham, Ala.  
A.B. (Birmingham-Southern College), History, Education.
- Landis, Allyn Wilder Jackson, Miss.  
A.B. (Belhaven College), English.
- Landis, Robert James Jackson, Miss.  
B.S. (Millsaps College), Education.
- Layton, Reber Boyce Jackson, Miss.  
B.S. (Millsaps College), Education, Mathematics.
- Lease, Vernon Oliver Friedens, Pa.  
B.S. (University of Alabama), Education.
- Lecka, George Mitchell Newland, N. C.  
A.B. (Milligan College), Education.
- Lee, Herbert Leonard Knoxville, Tenn.  
A.B., A.M. (University of Tennessee), Mathematics.

- Levin, Florence Cecilia  
B.S. (Fredericksburg State Teachers College), Sociology, Education.  
Norfolk, Va.
- Levy, Edward David  
A.B. (Harvard), Pathological Chemistry.  
W. Hartford, Conn.
- Lewis, Florence L'Dora  
A.B. (Millsaps College), English.  
Star, Miss.
- Lewis, Gomer Junior  
B.S. (Mansfield State Teachers College), Education.  
Jermyn, Pa.
- Lewis, James Howard  
B.S. (Millsaps College), Education, Psychology.  
Greenwood, Miss.
- Lewis, Mildred  
A.B. (Brenau College), English.  
Kline, S. C.
- Lord, Charles Amon  
A.B. (Shepherd State Teachers College), Education.  
Martinsburg, W. Va.
- Lynch, Kathryn Willogene  
A.B. (Concord State Teachers College), Education, Mathematics.  
St. Albans, W. Va.
- McCabe, Vance Alvin  
B.S. (Washington College), Education, Mathematics.  
Frankford, Del.
- McCartt, Mary Leah  
B.S. (East Tennessee State Teachers College), Education.  
Johnson City, Tenn.
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A.B. (Mercer), Psychology.  
Lawrence, Kan.
- McDaniel, Anne Elizabeth  
A.B. (Georgia State Teachers College), Education.  
Albany, Ga.
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A.B. (Marshall College), Education.  
Point Pleasant, W. Va.
- MacDonald, Harry John  
A.B. (Duke), Zoology.  
Asheville, N. C.
- McGayock, William Gillespie  
B.S. (Davidson College), A.M. (Duke), Mathematics.  
Franklin, Tenn.
- McKown, Paul  
A.B. (Princeton), A.M., Ph.D. (University of Pennsylvania), Education.  
Martinsburg, W. Va.
- Mabry, Gussie Eugene  
A.B. (Erskine College), Education, Psychology.  
Honea Path, S. C.
- Mason, Clarence Walton  
A.B. (Washington College), Education.  
Easton, Md.
- Mason, Elwood Byrd  
A.B. (Washington College), Education.  
Berlin, Md.
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B.S. (Trenton State Teachers College), English.  
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A.B. (Ohio Wesleyan), Education.  
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A.B., M.Ed. (Duke), Political Science.  
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Columbus, Ga.
- Merritt, Effie Mae  
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Monessen, Pa.



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A.B. (Mercer), Education, Economics.
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A.B. (East Carolina Teachers College), Education. Durham, N. C.
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A.B. (Marshall College), Education. Charleston, W. Va.
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A.B., B.S. (New River State College), Education. Milburn, W. Va.
- Porter, Gilbert Rodman  
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- Potts, Charlie Kinchin  
A.B. (Wofford College), Education. Hartsville, S. C.
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B.S. (North Carolina State College), Education. Holly Springs, N. C.
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A.B. (Furman), Education. Kershaw, S. C.
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- Ray, Cora Miller  
A.B. (Baylor College for Women), Education. Belton, Texas
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A.B. (Southern Methodist), Education. Dallas, Texas
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A.B. (Glenville State Teachers College), Botany. Elkview, W. Va.
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B.S. (Emory), Education. Statesboro, Ga.
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B.S. (Mansfield State Teachers College), English, Education. Waverly, N. Y.
- Rice, Donald Miller  
A.B. (Hiram College), A.M. (Western Reserve), History. Lakewood, Ohio
- Richardson, Frank Reid  
A.B. (Duke), Education. Troy, N. C.
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B.S., A.B. (Emory and Henry College), Education. Ewing, Va.

- Riddle, Charles Dayton Greenville, S. C.  
A.B. (Howard College), M.S. (University of Chicago), Zoology.
- Roehm, Albert David Chester, Pa.  
B.S. (Millersville State Teachers College), Education, History.
- Rollins, Roy Eugene Salisbury, N. C.  
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- Ross, William Alexander McAlevy's Fort, Pa.  
B.S. (Juniata College), Education.
- Royce, Wilbur E. Lake Worth, Fla.  
A.B. (University of Florida), History, Education.
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A.B. (Dickinson College), Education.
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B.S., M.Ed. (Temple), Education.
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B.S. (Waynesburg College), Economics, Political Science.
- Seward, Donald Monfort DeLand, Fla.  
A.B. (John B. Stetson), A.M. (University of North Carolina), Mathematics.
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A.B. (Duke), History.
- Shields, Oliver Leon Coral Ridge, Ky.  
B.S. (Western Kentucky State Teachers College), Education.
- Simmons, Willard Russell Sandston, Va.  
A.B. (University of Richmond), Economics.
- Simpson, Eugenia Floy Washington, Ga.  
A.B. (Wesleyan College), History, Education.
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B.S. (Florida State College for Women), Education, Botany.
- Slone, Jewell Edwina Mascotte, Fla.  
B.S. (Florida State College for Women), History.
- Smith, Alva Lee Norfolk, Va.  
B.S. (Virginia Polytechnic Institute), Mathematics.
- Smith, Dorothy Elizabeth Iuka, Miss.  
A.B. (Mississippi State College for Women), Education, History.
- Smith, Eunice Canada, Ky.  
A.B. (Transylvania College), English.
- Smith, Jessie Beatrice Belton, S. C.  
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B.S. (Mansfield State Teachers College), Education.

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English.
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B.S. (Farmville State Teachers College), Religion.
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- Burlington, N. C.

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|--|-----------------------|
| Vinson, Raymond Augustus<br>A.B. (University of Florida), Education.                               | S. Jacksonville, Fla. |
| Wagner, Carl Leon<br>A.B. (University of Miami), Education.  | Homestead, Fla.       |
| Waite, Edwin Emerson, Jr.<br>B.S. (Middlebury College), Sociology.                                 | New Hampton, N. H.    |
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| Walsh, Anastasia<br>B.S. (College of Charleston), English.   | Charleston, S. C.     |
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| Westmoreland, Aliceteen<br>A.B. (Woman's College of the University of North Carolina), Psychology. | Thomasville, N. C.    |
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| Wilder, Robert Perry<br>B.S. (Furman), Economics.  | Clinton, S. C.        |
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| Williams, Elisabeth Rose<br>A.B. (Erskine College), English.                                       | Iva, S. C.            |
| Williams, Louis Gressett<br>A.B. (Marshall College), Botany.                                       | Milton, W. Va.        |
| Williams, Olan Yarnall<br>B.S. (California State Teachers College), Education, English.            | California, Pa.       |
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| Wilson, Elizabeth Andrews<br>A.B. (Florida State College for Women), History.                      | Tampa, Fla.           |
| Witty, Ruth Winifred<br>A.B. (Mount Holyoke College), Education.                                   | Mineola, N. Y.        |
| Wonder, Craig Earl<br>A.B. (Juniata College), Romance Languages.                                   | Martinsburg, Pa.      |
| Young, William Coleman<br>A.B. (College of Charleston), History.                                   | Georgetown, S. C.     |
| Zimmerman, Carroll Louis<br>A.B. (Miami), A.M. (Duke), Physics.                                    | Washington, D. C.     |

## JUNALUSKA, SUMMER SCHOOL OF 1937

Arant, Martha Erress	Milton, Fla.
B.S. (Florida State College for Women), Botany.	
Gier, Leland Jacob	Buies Creek, N. C.
B.S., M.S. (Kansas State Teachers College), Botany.	
Hagaman, Jake George	Boone, N. C.
B.S. (Appalachian State Teachers College), Botany.	
Huntley, Dorothy Bell	Ruby, S. C.
A.B. (Queens-Chicora College), Botany.	
Singletary, Mary Leora	Kissimmee, Fla.
B.S. (Florida State College for Women), Botany.	
Stevenson, Bernard Henry	Waynesboro, Ga.
B.S. (University of South Carolina), Botany.	
Tanner, Martha Malinda	Chesnee, S. C.
A.B. (Winthrop College), Botany.	
Williams, Louis Gressett	Milton, W. Va.
A.B. (Marshall College), Botany.	
Wright, Audrey Adele	Louisville, Ky.
B.S. (University of Louisville), Botany.	

## SUMMARY

Graduate students, First Summer Term, 1937.....	685
Graduate students, Middle Summer Term, 1937.....	119
Graduate students, Last Summer Term, 1937.....	309
Graduate students, Junaluska Summer School, 1937.....	9
Graduate students, Academic Year 1937-38.....	249
<i>Total</i> .....	1,371
Deduct for duplications.....	248
<i>Total enrollment</i> .....	1,123













VOLUME 10

April, 1938

NUMBER 4

# BULLETIN OF DUKE UNIVERSITY

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*School of Religion*



1937-1938

ANNOUNCEMENTS FOR 1938-1939

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA



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BULLETIN  
OF  
DUKE UNIVERSITY



SCHOOL OF RELIGION  
1937-1938  
ANNOUNCEMENTS FOR 1938-1939

DURHAM, NORTH CAROLINA  
1938

## TABLE OF CONTENTS

---

	PAGE
CALENDAR .....	3
GENERAL ADMINISTRATION .....	4
EDUCATIONAL ADMINISTRATION .....	4
INSTRUCTIONAL STAFF .....	5
COMMITTEES OF THE FACULTY .....	6
HISTORICAL STATEMENT .....	7
REQUIREMENTS FOR ADMISSION .....	9
REQUIREMENTS FOR GRADUATION .....	9
REQUIREMENTS FOR DEGREE OF BACHELOR OF DIVINITY .....	11
COURSES OF INSTRUCTION .....	13
GENERAL INFORMATION .....	24
FEES .....	24
JUNALUSKA SCHOOL OF RELIGION .....	27
ROLL OF STUDENTS .....	30

## CALENDAR

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1938

- Sept. 23. Friday, 4:00 P.M.—First regular Faculty meeting.  
Sept. 24. Saturday—Matriculation and registration of students.  
Sept. 26. Monday, 8:00 A.M.—Instruction begins.  
Sept. 29. Thursday—Formal opening exercises.  
Oct. 5. Wednesday—Last day for submitting subjects for B.D. theses.  
Oct. 13. Thursday—Fall retreat.  
Nov. 11. Friday—Armistice Day.  
Nov. 24. Thursday—Thanksgiving Day: a holiday.  
Dec. 10. Saturday—Duke University Day.  
Dec. 20. Tuesday, 1:00 P.M.—Christmas recess begins.

1939

- Jan. 3. Tuesday, 8:00 A.M.—Instruction is resumed.  
Jan. 17. Tuesday—Mid-year examinations begin.  
Jan. 31. Tuesday—Matriculation and registration for second semester.  
Feb. 1. Wednesday—Second semester begins.  
March 25. Saturday, 1:00 P.M.—Spring vacation begins.  
April 3. Monday, 8:00 A.M.—Instruction is resumed.  
April 21, 22, 23. Friday, Saturday, Sunday—Centennial Celebration.  
May 15. Monday—Last day for submitting B.D. theses.  
May 19. Friday—Final examinations begin.  
June 3. Saturday—Commencement opens; Senior Class Day; Meeting of Board of Trustees.  
June 4. Sunday—President's Address to Graduating Class; Commencement Sermon.  
June 5. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

## GENERAL ADMINISTRATION

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FEW, WILLIAM PRESTON, A.B., A.M., Ph.D., LL.D., Litt.D.  
*President of the University*

FLOWERS, ROBERT LEE, A.M., LL.D.  
*Vice-President in the Business Division, Secretary, and  
Treasurer of the University*

WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D.  
*Vice-President in the Educational Division of the University*

BROWN, FRANK CLYDE, A.B., A.M., Ph.D.  
*Comptroller of the University*

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## COMMITTEE OF THE BOARD OF TRUSTEES ON THE SCHOOL OF RELIGION

W. W. PEELE, T. M. GRANT, J. B. HURLEY, T. F. MARR

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## EDUCATIONAL ADMINISTRATION

RUSSELL, ELBERT, A.B., A.M., Ph.D.  
*Dean of the School of Religion*

GARBER, PAUL NEFF, A.B., A.M., Ph.D.  
*Registrar of the School of Religion*

## INSTRUCTIONAL STAFF

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BRANSCOMB, BENNETT HARVIE, A.B., M.A. (Oxon), Ph.D.

*Professor of New Testament*

CANNON, JAMES, III, A.B., A.M., Th.B., Th.M.

*Ivey Professor of the History of Religion and Missions*

GARBER, PAUL NEFF, A.B., A.M., Ph.D.

*Professor of Church History*

HART, HORNELL NORRIS, A.B., A.M., Ph.D.

*Professor of Social Ethics*

HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D.

*Professor of Preaching and the Psychology of Religion*

MYERS, HIRAM EARL, A.B., S.T.B., S.T.M.

*Professor of English Bible*

ORMOND, JESSE MARVIN, A.B., B.D.

*Professor of Practical Theology*

\*ROWE, GILBERT THEODORE, A.B., D.D., Litt.D.

*Professor of Christian Doctrine*

RUSSELL, ELBERT, A.B., A.M., Ph.D.

*Professor of Biblical Interpretation*

\*SMITH, HILRIE SHELTON, A.B., Ph.D., D.D.

*Professor of Christian Ethics and Religious Education*

SPENCE, HERSEY EVERETT, A.B., A.M., B.D.

*Professor of Religious Education*

CLARK, KENNETH WILLIS, A.B., B.D., Ph.D.

*Assistant Professor of New Testament*

PETRY, RAY C., A.B., A.M., Ph.D.

*Assistant Professor of Church History*

STINESPRING, WILLIAM FRANKLIN, B.A., M.A., Ph.D.

*Assistant Professor of Old Testament*

DUBS, HOMER H., A.B., M.A., B.D., Ph.D.

*Acting Professor of Philosophy*

BENTON, JOHN KEITH, A.B., B.D., Ph.D.

*Visiting Professor of Christian Doctrine*

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ELLWOOD, CHARLES ABRAM, Ph.B., Ph.D., LL.D.

*Professor of Sociology*

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\* Absent on leave, first semester, 1938-39.



JENSEN, HOWARD EIKENBERRY, A.B., A.M., B.D., Ph.D.  
*Professor of Sociology*

LUNDHOLM, HELGE, Ph.D.  
*Professor of Psychology*

MCDUGALL, WILLIAM, B.A., M.A., M.B., D.Sc., Litt.D.  
*Professor of Psychology*

WIDGERY, ALBAN GREGORY, B.A., M.A.  
*Professor of Philosophy*

CRISPELL, RAYMOND, A.B., M.D.  
*Associate Professor of Neuropsychiatry*

MORGAN, GEORGE ALLEN, JR., A.B., A.M., Ph.D.  
*Associate Professor of Philosophy*

THOMPSON, EDGAR TRISTRAM, A.B., A.M., Ph.D.  
*Assistant Professor of Sociology*

BARNES, JAMES FOSTER, A.B., A.M.  
*Instructor in Church Music*

CUNINGGIM, AUGUSTUS MERRIMON, A.B., B.A. (Oxon), A.M.  
*Instructor in Church Music*

HAINES, HOWARD N., B.S.  
*Instructor in Church Architecture*

LEWIS, LEROY, A.B.  
*Instructor in Public Speaking*

OUTLER, ALBERT C., A.B., A.M., B.D.  
*Instructor in English Bible*

### COMMITTEES OF THE FACULTY

*Admissions*—The Dean, the Registrar, and Professor Smith.

*Bulletin*—Professors Russell, Cannon, Garber, Spence, and Rowe.

*Extension*—Professors Hickman, Rowe, Myers, Ormond, and Spence.

*Library*—Professors Cannon and Smith and Assistant Professor Clark.

*Public Exercises*—Dean Russell and Professors Branscomb, Hickman, and Rowe, and Assistant Professor Stinespring.

*Registration and Advanced Standing*—The Registrar, the Dean, and Professor Cannon.

*Theses*—Professors Cannon, Garber, Hickman, Smith, and Rowe.

*Representatives on Joint Committee on Junaluska School of Religion*—President Few, Dean Russell, and Professor Garber.

# SCHOOL OF RELIGION IN DUKE UNIVERSITY

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## HISTORICAL STATEMENT

The present Duke University has been gradually developed from a simple beginning in a local school established in 1838 in the northwestern part of Randolph County, North Carolina. This school was enlarged in 1840 and named Union Institute. In 1841 it was incorporated as Union Institute Academy by the legislature of North Carolina. Under the leadership of President Braxton Craven, the Academy grew into an institution chartered as Normal College in 1851. An amendment to the charter in November, 1852, authorized Normal College to grant degrees, and two students were graduated in 1853 with the degree of Bachelor of Arts.

In 1859 the charter of Normal College was amended to place the institution under the control of the Methodist Episcopal Church, South, and the name was changed to Trinity College. Dr. John Franklin Crowell became president of Trinity College in 1887. The most important achievement of his administration was the removal of the College to Durham, North Carolina, which was accomplished by September, 1892.

President Crowell resigned in 1894, and was succeeded by the Reverend John Carlisle Kilgo, D.D. During President Kilgo's administration the endowment of Trinity College was greatly increased, a library and other important buildings were erected, and notable progress was made in increasing the variety and improving the quality of the courses of instruction. A School of Law was established in 1904 by the gift of James B. and Benjamin N. Duke. In 1910 President Kilgo was succeeded by Dr. William Preston Few.

Trinity College has experienced a great expansion in faculty, endowment, buildings, and equipment during President Few's administration. In December, 1924, James B. Duke established a \$40,000,000 trust fund for educational and charitable purposes. Trinity College accepted the terms of the indenture of trust on December 29, 1924, and on the following day the name of the institution was changed to Duke University. Mr. Duke's death in 1925 was followed by the announcement of munificent provisions in his will for the development of the University which bears his family name.

## SCHOOL OF RELIGION

Trinity College was established by Christian men for the purpose of providing education for young men and women under distinctive Christian auspices. There has been no departure from this clearly defined aim. On the contrary, there has been ever increasing emphasis placed upon this feature of the work of the College, especially in the provision in the curriculum for a great variety of courses on the Bible and other religious subjects.

Through the gift of James B. Duke, the School of Religion and its curriculum have been separated from the work of the Department of Religion in Trinity College. Among those for whom his gift was intended Mr. Duke placed ministers first. He felt sure that his native state of North Carolina stood in need primarily of a better educated and more efficiently trained ministry. The organization of the School of Religion of Duke University, the first of the professional schools to start its work, is the carrying out of this intention on the part of Mr. Duke. The work of the School began with the academic year 1926-27, though the formal opening exercises were not held until November 9, 1926.

Duke University retains the same close relationship which Trinity College always held to the Conferences in North Carolina of the Methodist Episcopal Church, South. This legal relationship has always been broadly interpreted: members of all Christian denominations, as well as Methodists, are made to feel welcome in the School of Religion. The basis on which the work is conducted is broadly catholic and not narrowly denominational.

### **THE PURPOSE OF THE SCHOOL OF RELIGION**

Christian work has now expanded to the extent that it covers far more than the work of a preacher or minister. The School of Religion of Duke University purposes to offer training for all types of Christian service. This includes missionaries, teachers of Bible and other religious subjects in the schools and colleges of the Church, directors of religious education, and social workers. In the future it is planned to fit the courses more completely to the needs of these workers. Still it must be kept clear that the minister in charge of a church, who is placed before the people to preach the Gospel of Christ, is the center and key to the whole problem of Christian work in the church. It is felt with strong conviction that the training of all Christian workers should be maintained on a high level. Consequently, the School of Religion is organized on a strictly graduate basis. It is sincerely hoped that the standard thus set may increasingly influence the type of men and women entering Christian work and may lead them to demand the best of themselves in the prosecution of the work of Christ among men.

### **RELATION OF THE SCHOOL OF RELIGION TO DUKE UNIVERSITY**

As one of the co-ordinate schools of Duke University, the School of Religion is in closest touch with the other schools, particularly with Trinity College and with the Graduate School. Correspondence is invited from those who are interested in the possibility of securing degrees other than that of Bachelor of Divinity, which is granted upon recommendation of the Faculty of the School of Religion. Seniors in Trinity College are admitted to certain courses in the School of Religion. Various privileges of Duke University are open to students of the School of Religion. Students in the School are expected to take part in the religious and social life of the University campus and to share in athletic interest and activities.

## REQUIREMENTS FOR ADMISSION

Candidates for matriculation must be graduates of colleges of recognized standing. They will be admitted without examination on presentation of an official transcript of all college credits and such other credits as they may have secured. This applies to students coming from foreign countries as well as to students from institutions in the United States. They must satisfy the Faculty as to their Christian character and purpose. To this end a letter regarding a student's character and purpose from the pastor of his home church, a church official, or some faculty member in the college where he did his undergraduate work, should be presented at the time of admission. Women will be admitted on the same conditions as men.

## PART-TIME SCHEDULES

Students who are not giving full time to their studies in the School of Religion may carry only limited schedules of class work.

## REQUIREMENTS FOR GRADUATION

The requirements for the degree of Bachelor of Divinity are ninety semester-hours, six semester-hours of which shall be covered by the writing of an adequate thesis, either in a thesis seminar or under supervised thesis guidance. The course is planned to cover three years, of two semesters each, and students are urged to plan to spend in their theological studies the full time thus designated. Students coming from colleges where departments of religion are maintained may be admitted to advanced courses in the departments of the School of Religion in which they have done previous work as undergraduates. In no case will the degree of Bachelor of Divinity be conferred on a student until he has spent at least two full semesters in residence in the School of Religion, and has satisfactorily completed a minimum of twenty-four semester-hours of work.

## THESIS

A thesis is required of all candidates for the degree of Bachelor of Divinity. It shall be of such a character as shall evidence a knowledge of the methods of research and an ability to conduct independent investigations. It shall be written upon some topic in the major field of study. The candidate is responsible for the selection of a suitable subject, which must be approved by the professor in charge of the major field, and must be filed with the Dean of the School of Religion on or before October 5 of the academic year in which it is expected that the degree will be conferred. Following the submission and approval of the subject of the thesis no changes shall be permitted, except changes for the purpose of clarification or limitation of the subject. A student who does not complete his thesis within a period of three years from the date of the approval of his subject must secure a reapproval of the old subject or the approval of a new subject. The thesis shall be prepared under the super-

vision and guidance of the professor in charge of the major field. No student shall be allowed to write his thesis *in absentia* except on the approval of the Committee on Theses upon the recommendation of the professor in charge of the thesis. In all such cases regular reports as to the progress of the thesis must be made to the professor in charge, as often as he may deem wise.

The thesis shall be between one hundred and one hundred and twenty pages in length, inclusive of introduction, conclusion, appendices, and bibliography, except in unusual cases clearly recognized as such by the Thesis Committee in approving thesis subjects. The student, the director, and the Thesis Committee shall be responsible for the selection and approval of such subjects as can be treated satisfactorily within these limits.

The thesis shall be read by a committee of three members of the Faculty of the School of Religion, one of whom shall be the professor under whose direction the thesis has been written, and two other members appointed by the Dean, one of whom shall be of a department other than that in which the thesis is written. Each candidate shall be examined orally on his thesis by the committee appointed to read it, said examination not to exceed one hour in length. The thesis must be satisfactory to a majority of the members of the Examining Committee, including the representative of the department in which the thesis was written.

A complete, typed copy of the thesis shall be in the hands of the professor under whom the thesis is written, for correction, by May 1, and three permanently bound typewritten copies shall be presented for examination not later than May 15 of the year in which it is expected the degree will be conferred. Theses submitted after May 15 shall not be considered as fulfilling the requirements for graduation in that academic year. In the case of extensive corrections of the thesis in the course of the examination, such retyping and rebinding of the thesis as the Committee of Examination may desire shall be required.



# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF DIVINITY

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## GENERAL REQUIREMENTS

Ninety semester-hours are required for graduation. Forty-two of these must be the following:

Old Testament	6 s.h.
New Testament	6 s.h.
Christian Doctrine	6 s.h.
Church History	6 s.h.
Homiletics	6 s.h.
Practical Theology	6 s.h.
Religious Education	3 s.h.
History of Religion and Missions	3 s.h.
	<hr style="width: 10%; margin-left: 0;"/> 42 s.h.

## MAJORS AND THESES

Each student must select a major field in which he elects to write his thesis and in which he must take twelve semester-hours in addition to the general requirement in that field. This choice must be made by the end of the Middle year. A student may take his major in any of the departments of the School of Religion. He may also take his major in English Bible. To major in that field, he must complete in addition to the required work in the Departments of Old Testament and New Testament nine semester-hours in the Department of Old Testament and nine semester-hours in the Department of New Testament, exclusive of language.

12 s.h.

## FREE ELECTIVES

Thirty-six semester-hours are designated as free electives. These are to be elected by the student, subject to the approval of the Faculty.

36 s.h.

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90 s.h.

## DISTRIBUTION OF COURSES BY YEARS

### JUNIOR YEAR

Old Testament	6 s.h.
New Testament	6 s.h.
Church History	6 s.h.

The remaining twelve semester-hours shall be chosen from the remaining required courses or their normal sequences in the Departments of Homiletics, Practical Theology, Religious Education, History of Religion and Missions, but not more than six semester-hours shall be taken in one department. Students desiring courses in Greek and Hebrew may secure a suitable rearrangement of the distribution of courses by years on approval of the Registration Committee.

12 s.h.

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30 s.h.



## MIDDLE YEAR

Christian Doctrine 6 s.h.

After completing all other required courses, the remainder of the work of this year is elective, but not more than twelve semester-hours shall be taken in one department. 24 s.h.

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30 s.h.

## SENIOR YEAR

In the Senior year the student must fulfill all general requirements not completed in the Junior and Middle years. The remainder of the work is elective. 30 s.h.

## TABLE OF REQUIRED COURSES

## OLD TESTAMENT

203-204. Introduction to the Old Testament 6 s.h.

## NEW TESTAMENT

213-214. The Beginnings of Christianity 6 s.h.

## CHRISTIAN DOCTRINE

321. Introduction to the Science of Theology, *and either* 3 s.h.

322. The Content of Christian Doctrine, *or* 3 s.h.

324. Theology in Modern Christianity, *or* 3 s.h.

204. Christian Ethics, *or* 3 s.h.

245. Philosophical Foundations of Religious Belief I, *or* 3 s.h.

246. Philosophical Foundations of Religious Belief II 3 s.h.

## CHURCH HISTORY

233. Church History to the Reformation 3 s.h.

234. The History of the Evangelical Movement 3 s.h.

## HOMILETICS

SR341. Theory and Practice of Preaching 3 s.h.

SR342. Sermon Construction 3 s.h.

## PRACTICAL THEOLOGY

351. Rural Church Administration (alternating with SR355, Public Worship and Ordinances of the Church), *or* 3 s.h.

SR385. Missionary Promotion, *or* 3 s.h.

234. Experimental Social Ethics 3 s.h.

## RELIGIOUS EDUCATION

261. Foundations of Religious Education, *or* 3 s.h.

262. Organization of Religious Education 3 s.h.

## HISTORY OF RELIGION AND MISSIONS

281. Living Religions of the World 3 s.h.

## COURSES OF INSTRUCTION\*

### OLD TESTAMENT

**201-202. Elementary Hebrew.**—The principles and structure of the Hebrew language with translation of selected Old Testament narratives. M.W.F. at 11:30. 6 s.h. ASSISTANT PROFESSOR STINESPRING

**203-204. Introduction to the Old Testament.**—The origin, literary forms, and contents of the books of the Old Testament in their geographical and historical setting. M.W.F. at 8:00. 6 s.h.

PROFESSOR RUSSELL AND ASSISTANT PROFESSOR STINESPRING

**301. Old Testament Theology.**—The religious and ethical teachings of the books of the Old Testament in their historical development. Prerequisite: Old Testament 203-204. T.Th.S. at 10:20. 3 s.h. PROFESSOR RUSSELL

**302. The Exegesis of Selected Books of the Old Testament.**—A study of the Wisdom Literature with special emphasis on the Book of Job. Based on the English text. Prerequisite: Old Testament 203-204. T.Th.S. at 10:20. 3 s.h. ASSISTANT PROFESSOR STINESPRING

[Not offered in 1938-39]

**305-306. Elementary Arabic.**—No prerequisite but one year of Hebrew recommended as preparation. 6 s.h. ASSISTANT PROFESSOR STINESPRING

[Not offered in 1938-39]

**307-308. Advanced Hebrew.**—Samuel or Kings the first semester and Isaiah the second. M.W.F. at 2:00. 6 s.h.

ASSISTANT PROFESSOR STINESPRING

**309. History of the Ancient Near East.**—A survey of the early civilizations of Egypt, Palestine, Syria, and Mesopotamia in the light of Biblical archaeology. T.Th.S. at 11:30. 3 s.h. ASSISTANT PROFESSOR STINESPRING

**310. Old Testament Prophecy.**—The prophetic movement in Israel with special emphasis on the prophets of the Eighth Century B. C. T.Th.S. at 10:20. 3 s.h. ASSISTANT PROFESSOR STINESPRING

**401-402. Thesis Seminar.**—For students majoring in the Department of Old Testament. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis.)

DEPARTMENTAL STAFF

### NEW TESTAMENT

**SR211-212. Hellenistic Greek.**—A course for students who wish to begin the study of New Testament Greek. T.Th.S. at 8:00. 6 s.h., provided the student takes six semester-hours in New Testament Greek the following year. ASSISTANT PROFESSOR CLARK

**213-214. The Beginnings of Christianity.**—A survey course dealing with the background, the beginnings, and the early history of Christianity. Special attention is given to the creation of the literature of the New Testament. M.W.F. at 9:10. 6 s.h. PROFESSOR BRANSCOMB

\* On recommendation of the professor in charge of the major field courses offered in the Graduate School of Arts and Sciences, other than those approved for credit in the School of Religion, may be approved for credit in individual cases, provided no equivalent course is offered in the School of Religion; each case to be decided on its merits.

**217. The New Testament in Greek.**—Considerable portions of the Greek text of the New Testament will be read and the principles of Hellenistic Greek studied. Prerequisite: six semester-hours study of the Greek language. T.Th.S. at 9:10. 3 s.h. ASSISTANT PROFESSOR CLARK

**218. Galatians and I Corinthians.**—A detailed study of two of Paul's major epistles. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. T.Th.S. at 9:10. 3 s.h. [Not offered in 1938-39] ASSISTANT PROFESSOR CLARK

**219. Life of Paul.**—A study of Paul's life on the basis of Acts and the letters of Paul, emphasizing the permanent values in Paul's work and his contribution to the world. 3 s.h. PROFESSOR MYERS  
[Not offered in 1938-39]

**220. I Peter and the Gospel of John.**—A detailed study of two of the non-Pauline writings of the New Testament. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. T.Th.S. at 9:10. 3 s.h. ASSISTANT PROFESSOR CLARK

**311. The Life and Teachings of Jesus.**—Prerequisite: New Testament 213-214. M.W.F. at 10:20. 3 s.h. PROFESSOR BRANSCOMB

**312. New Testament Theology.**—The religious teachings of the books of the New Testament. Prerequisite: New Testament 213-214. M.W.F. at 10:20. 3 s.h. PROFESSOR RUSSELL

**314. Exegesis of Selected Books of the New Testament.**—The books studied will be Romans, James, First John. The study will be based on the English text. Prerequisite: New Testament 213-214. T.Th.S. at 11:30. 3 s.h. ASSISTANT PROFESSOR CLARK

**315. Hellenistic Religions at the Beginning of the Christian Era.**—Prerequisite: New Testament 213-214. T.Th.S. at 10:20. 3 s.h. ASSISTANT PROFESSOR CLARK

**316. Judaism at the Beginning of the Christian Era.**—A study of Judaism from the time of Ben Sirach to the writing of the Mishna. Prerequisite: New Testament 213-214. T.Th.S. at 10:20. 3 s.h. PROFESSOR BRANSCOMB

**318. Text of New Testament.**—A study of the materials for the reconstruction of the text, the principles of textual criticism, and the history of the text. Practical exercises in the use of manuscripts and facsimiles will be given. Prerequisite: New Testament 213-214 and a reading knowledge of Greek. T.Th.S. at 10:20. 3 s.h. ASSISTANT PROFESSOR CLARK  
[Not offered in 1938-39]

**411-412. Thesis Seminar.**—The materials and methods for the investigation of New Testament problems, with individual research done under the direction of the members of the Department. Admission by special permission. (Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis.) DEPARTMENTAL STAFF

### CHRISTIAN DOCTRINE

**321. Introduction to the Science of Theology.**—A consideration of theology as a branch of science and an indication of some of the results obtained through the use of the scientific method in theological investigation. M.W.F. at 3:00. 3 s.h. VISITING PROFESSOR BENTON

**322. The Content of Christian Doctrine.**—A comprehensive survey of the leading doctrines of Christianity in the light of the religious thought and experience of the present age. M.W.F. at 3:00. 3 s.h. PROFESSOR ROWE

**323. Theology in Ancient and Medieval Christianity.**—The history of Christian thought from the Greek Fathers to the Scholastics with special attention to the ecumenical creeds. Prerequisite: Christian Doctrine 321-322. T.Th.S. at 11:30. 3 s.h. DR. OUTLER

**324. Theology in Modern Christianity.**—The history of Christian thought from the beginning of the Reformation to the present time. Prerequisite: Christian Doctrine 321-322. T.Th.S. at 11:30. PROFESSOR ROWE

**325. Soteriology.**—A study of the Christian doctrine of salvation and a comparison of the various ways by which the saving power of God is thought to take effect in personal and social life. Prerequisite: Christian Doctrine 321-322. M.W.F. at 11:30. 3 s.h. PROFESSOR ROWE  
[Not offered in 1938-39]

**326. Eschatology.**—A study of "the last things" in the light of the Christian hope for the individual and for society with special emphasis upon personal immortality. Prerequisite: Christian Doctrine 321-322. M.W.F. at 11:30. 3 s.h. PROFESSOR ROWE  
[Not offered in 1938-39]

**327. Arminian Theology.**—A study of Arminianism in the religious thought of England and America with special reference to the system of doctrine contained in the theological writings and doctrinal standards of Methodism. Prerequisite: Christian Doctrine 321-322. M.W.F. at 11:30. 3 s.h. VISITING PROFESSOR BENTON

**328. Current Theology.**—A survey of the field of contemporary theology with special attention given to the most significant and influential movements of reconstruction and reaction in liberal Christianity. Prerequisite: Christian Doctrine 321-322. M.W.F. at 11:30. 3 s.h. PROFESSOR ROWE

**421-422. Thesis Seminar.**—A seminar in thesis guidance. For students majoring in the Department of Christian Doctrine. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis.) PROFESSOR ROWE

**301. Old Testament Theology.**—Identical with Old Testament 301. T.Th.S. at 10:20. 3 s.h. PROFESSOR RUSSELL

**312. New Testament Theology.**—Identical with New Testament 312. M.W.F. at 10:20. 3 s.h. PROFESSOR RUSSELL

## CHURCH HISTORY

**233. Church History to the Reformation.**—A survey of the growth of the Christian Church from the Apostolic Age to the Reformation. M.W.F. at 10:20. 3 s.h. ASSISTANT PROFESSOR PETRY

**234. History of the Evangelical Movement.**—Beginning with the Lutheran Reformation, this course traces the rise, growth, influence, and history to 1800 of the Calvinistic, Anglican, Reformed, Quaker, Baptist, and Methodist movements. M.W.F. at 10:20. 3 s.h. PROFESSOR GARBER

**331. The Social Message of the Early and Medieval Church.**—A study of the social teachings of the Christian Church prior to the Protestant Reformation, stressing the contributions of Christianity to social progress. Prerequisite: Church History 233-234. T.Th.S. at 8:00. 3 s.h. ASSISTANT PROFESSOR PETRY

**332. The Medieval Church.**—Outstanding characteristics of the Medieval Church, emphasizing theory, polity, institutions, sacraments, and worship. Prerequisite: Church History 233-234. T.Th.S. at 8:00. 3 s.h. ASSISTANT PROFESSOR PETRY

**333. The Church in America: The National Period.**—Major emphasis is placed upon relations of church and state, steps toward Christian unity, the small sects, the Young People's Movement, Christian education, and modern theological issues. Prerequisite: Church History 233-234. T.Th.S. at 9:10. 3 s.h.  
PROFESSOR GARBER

**334. Protestantism and Catholicism in Europe since 1800.**—A study of the religious situation in Europe in modern times, emphasizing the papacy in the age of nationalism, relations of church and state, German theology of the nineteenth century, and the Oxford Movement. Prerequisite: Church History 233-234. M.W.F. at 11:30. 3 s.h.  
PROFESSOR GARBER  
[Not offered in 1938-39]

**335. Modern Religious Leaders.**—A study of outstanding individuals who have influenced the thought and program of the modern church. The life, work, and contributions of about twenty representative Christian leaders. Prerequisite: Church History 233-234. M.W.F. at 11:30. 3 s.h.  
PROFESSOR GARBER

**336. Religious Leaders of the Early and Medieval Church.**—Among those to be studied are Justin Martyr, Origen, Cyprian, Jerome, Augustine, Benedict of Nursia, Athanasius, Gregory VII, Abelard, St. Thomas Aquinas, Innocent III, and John Wyclif. Prerequisite: Church History 233-234. M.W.F. at 11:30. 3 s.h.  
ASSISTANT PROFESSOR PETRY

**338. Seminar in Methodism.**—Selected studies in the rise and growth of Methodism. Prerequisite: Church History 233-234. M. at 4:00. 2 s.h.  
PROFESSOR GARBER

**339. Religion in the Southern States since the Civil War.**—A study of the religious life of the Southern people since 1865. Prerequisite: Church History 233-234. 3 s.h.  
PROFESSOR GARBER  
[Not offered in 1938-39]

**431-432. Thesis Seminar.**—Principles and Practice of Research. (Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis.) T. at 2:00.  
PROFESSOR GARBER

## HOMILETICS

**SR341. Theory and Practice of Preaching.**—Investigation of practical problems in preaching to determine causes of success and failure. Practice preaching. T.Th.S. at 9:10. 3 s.h.  
PROFESSORS HICKMAN, MYERS, AND ROWE, AND MR. LEWIS

**SR342. Sermon Construction.**—Problems in sermon construction. Analysis of selected sermons. Practice preaching. T.Th.S. at 9:10. 3 s.h.  
PROFESSORS HICKMAN, MYERS, AND ROWE, AND MR. LEWIS

**344. Doctrinal Preaching.**—An inductive study of the doctrinal emphasis in preaching, with particular attention to abiding doctrinal truths in an age of changing intellectual and social perspectives. T.Th.S. at 8:00. 3 s.h.  
PROFESSOR HICKMAN  
[Not offered in 1938-39]

**347. History of Preaching.**—A study of significant periods and their representative preachers, to determine their value for modern preaching. M.W.F. at 11:30. 3 s.h.  
PROFESSOR MYERS

**348. Materials of Preaching.**—A critical evaluation of selected portions of the Bible and of some non-Biblical materials for constructive modern preaching. M.W.F. at 11:30. 3 s.h.  
PROFESSOR MYERS

**343. Psychology of Preaching.**—Identical with Psychology of Religion 374. T.Th.S. at 8:00. 3 s.h.  
PROFESSOR HICKMAN  
[Not offered in 1938-39]



## PRACTICAL THEOLOGY

**351. Rural Church Administration.**—This course will deal with the function of the rural church; the minister's personality as a factor in church administration; the minister's service in managing the church organization and supervising the program. T.W. at 7:30 P.M. 3 s.h. PROFESSOR ORMOND  
[Not offered in 1938-39]

**352. The Rural Church and Sociology.**—A study of the present-day rural conditions; the historical development of the church in rural society; an attempt to discover the obligation of the church to the rural social order. T.W. at 7:30 P.M. 3 s.h. PROFESSOR ORMOND  
[Not offered in 1938-39]

**SR355. Public Worship and Ordinances of the Church.**—The principles and practice of worship in the church; celebration of the Lord's Supper; conduct of funerals, baptisms, weddings, reception of members. T.W. at 7:30 P.M. 3 s.h. PROFESSOR ORMOND

**SR356. The Church's Service to the Community.**—This course deals with the needs of and service to the rural community; personal and educational evangelism. T.W. at 7:30 P.M. 3 s.h. PROFESSOR ORMOND

**SR358a. Church Music.**—A study of hymnology, song leading, and problems of the modern church choir. M.W. at 11:30. 2 s.h. MESSRS. BARNES AND CUNINGGIM

**SR358b. Church Architecture.**—A study of the best types of church architecture for attractiveness and effective service in open country and towns. F. at 11:30. 1 s.h. MR. HAINES

**SR453-454. Practicum on Rural Church Work.**—(a) The basic elements in the minister's character and personality that are essential to successful leadership. (b) Developing ministerial efficiency by conserving the educational values of actual experiences of ministerial students in rural churches. Th. at 7:30 P.M. 2 s.h. PROFESSOR ORMOND

**\*220. Rural Sociology.**—Identical with Sociology 220. M.W.F. at 8:00. 3 s.h. ASSISTANT PROFESSOR THOMPSON

**234. Experimental Social Ethics.**—Identical with Sociology 234. M.W.F. at 9:10. 3 s.h. PROFESSOR HART

**373. Pastoral Psychology.**—Identical with Psychology of Religion 373. T.Th.S. at 8:00. 3 s.h. PROFESSOR HICKMAN  
[Not offered in 1938-39]

**SR385. Missionary Promotion.**—Identical with History of Religion and Missions SR385. T.Th.S. at 10:20. 3 s.h. PROFESSOR CANNON AND ACTING PROFESSOR DUBS

**\*\*459. Introduction to Psychiatry.**—Th. 1:30-2:30. 1 s.h. ASSOCIATE PROFESSOR CRISPELL

## RELIGIOUS EDUCATION

**261. Foundations of Religious Education.**—A study of the fundamental conceptions underlying the theory of Christian education, including social, psychological, and theological aspects. T.Th.S. at 11:30. 3 s.h. PROFESSOR SMITH  
[Offered during the second semester]

\* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

\*\* Course offered in the School of Medicine which is credited toward the degree of Bachelor of Divinity.



**262. Organization of Religious Education.**—The development of a system of organization and administration based upon constructive educational theory, and embracing week-day as well as Sunday agencies of religious education. T.Th.S. at 8:00. 3 s.h. PROFESSOR SPENCE

[Offered during the first semester]

**263. Curriculum of Religious Education.**—Educational conceptions of the curriculum; values and uses of current curricula; principles and technics of curriculum construction. T.Th.S. at 11:30. 3 s.h. PROFESSOR SPENCE

[Not offered in 1938-39]

**267. Technic of Teaching Religion.**—Objectives and principles of the teaching process, including a discussion of the major types of educational procedure. T.Th.S. at 11:30. 3 s.h. PROFESSOR SPENCE

[Offered during the second semester]

**SR265. Religious Drama.**—A study of the uses and underlying principles of religious drama, followed by a critical examination of selected dramatic productions. M.W.F. at 9:10. 3 s.h. PROFESSOR SPENCE

**SR268. Drama Construction and Production.**—The course will deal with the use of drama in religious education with special reference to the church and church school. It is contemplated that there will be practice in teaching through dramatics; in actually creating dramatic programs of worship, and in the writing and producing of drama. M.W.F. at 9:10. 3 s.h. PROFESSOR SPENCE

**266. Educational Aspects of Worship.**—A study of worship in its bearing upon the educational function of the Christian religion. Students admitted on consultation. T.Th.S. at 11:30. 3 s.h. PROFESSOR SMITH

[Not offered in 1938-39]

**362. Ethical Theory of Christian Education.**—The implication of Christian ethics for religious education in contemporary society. Prerequisite: Religious Education 261 or its equivalent. T.Th.S. at 11:30. 3 s.h. PROFESSOR SMITH

[Not offered in 1938-39]

**363-364. Religious Thought in the Rise of American Culture.**—A survey of the main developments in American religious thought in relation to the growth of civilization and culture. Prerequisite: Religious Education 261 or its equivalent. M.W.F. at 9:10. 6 s.h. PROFESSOR SMITH

[Not offered in 1938-39]

**365. Seminar in Character Education and the State.**—A study of the state as character educator, involving a critical examination of the ethical philosophy of the secular state, and of the modern theories and practices of character education. Prerequisite: Religious Education 261 or its equivalent. F. at 4:00. 2 s.h. PROFESSOR SMITH

[Not offered in 1938-39]

**366. Seminar in Philosophy of Religious Education.**—A critical study of the basic concepts and theories underlying religious education. Prerequisite: Religious Education 261 or its equivalent. F. at 4:00. 2 s.h. PROFESSOR SMITH

PROFESSOR SMITH

**461-462. Thesis Seminar.**—A seminar in thesis guidance. For students majoring in the Department of Religious Education. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis.) DEPARTMENTAL STAFF

## PSYCHOLOGY OF RELIGION

**275. Introduction to the Psychology of Religion.**—Study of the major factors of religious experience, together with conditions bearing upon its genesis and growth. T.Th.S. at 8:00. 3 s.h. PROFESSOR HICKMAN

PROFESSOR HICKMAN

**276. Advanced Psychology of Religion.**—Psychological study of such problems as worship, prayer, and various types of belief. Some attention to special problems. Prerequisite: Psychology of Religion 275 or its equivalent. T.Th.S. at 8:00. 3 s.h. PROFESSOR HICKMAN

**371. The Genetic Psychology of Religion.**—Principles of genetic psychology as they relate to the growth of religious experience. Prerequisite: Psychology of Religion 275 or its equivalent. T.Th. at 4:00-5:30. 3 s.h. [Not offered in 1938-39] PROFESSOR HICKMAN

**372. Mysticism in Religion.**—An analytical study and evaluation of mystical phases of Christianity. Prerequisite: Psychology of Religion 275 or its equivalent. T.Th. at 4:00-5:30. 3 s.h. [Not offered in 1938-39] PROFESSOR HICKMAN

**373. Pastoral Psychology.**—Study of basic psychological and psychiatric principles bearing upon cases necessarily dealt with in pastoral work. T.Th.S. at 8:00. 3 s.h. [Not offered in 1938-39] PROFESSOR HICKMAN

**374. Psychology of Preaching.**—A psychological study of the preaching motive, the relation of the preacher to his congregation, and the relation of the preacher to society in general. T.Th.S. at 8:00. 3 s.h. [Not offered in 1938-39] PROFESSOR HICKMAN

**377-378. Seminar: Theories of Self.**—Bearing of psychological theories of self upon religious theory. For advanced students in philosophy, psychology, or psychology of religion. T. at 4:00. 4 s.h. PROFESSOR HICKMAN

**471-472. Thesis Guidance.**—(Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis.) PROFESSOR HICKMAN

**\*201. Social Psychology.**—Open to students in School of Religion on consent of instructor. T.Th. at 9:10. 2 s.h. [Not offered in 1938-39] PROFESSOR McDUGALL

**\*223. Abnormal Psychology.**—Open to students in School of Religion on consent of instructor. T.Th.S. at 10:20. 3 s.h. PROFESSOR LUNDHOLM

**\*219. History of Psychology.**—Open to students in the School of Religion on consent of instructor. T.Th. at 9:10. 2 s.h. PROFESSOR McDUGALL

**\*228. Psychology of Belief.**—Open to students in School of Religion on consent of instructor. T.Th. at 10:20. 2 s.h. PROFESSOR LUNDHOLM

## PHILOSOPHY OF RELIGION

**\*203. The Philosophy of Conduct.**—A critical study of the fundamental problems of ethics. T.Th.S. at 11:30. 3 s.h. ASSOCIATE PROFESSOR MORGAN

**204. Christian Ethics.**—An historical and systematic study of Christian conceptions of the moral life and its problems. M.W.F. at 9:10. 3 s.h. PROFESSOR SMITH

**\*209. Philosophy of Religion I: Philosophical Introduction.**—Religion viewed with the standpoint of consideration of deity. T.Th. at 2:15-3:30. 3 s.h. [Not offered in 1938-39] PROFESSOR WIDGERY

\* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

**\*210. Philosophy of Religion II: Philosophical Introduction.**—Religion viewed from the standpoint of the nature of man, his origin and destiny. T.Th. at 2:15-3:30. 3 s.h. PROFESSOR WIDGERY  
[Not offered in 1938-39]

**\*226. The History of Ethics.**—Theories of morality from Socrates to the present time. 3 s.h. ASSOCIATE PROFESSOR MORGAN

**245. Philosophical Foundations of Religious Belief I.**—The origin of religion, its historical development, its nature and types. The problem of knowledge and religion. T.Th. at 2:15-3:30. 3 s.h. ACTING PROFESSOR DUBS

**246. Philosophical Foundations of Religious Belief II.**—The historic criticism of religion; current theistic theories; an attempt to formulate a tenable theistic philosophy. T.Th. at 2:15-3:30. 3 s.h. ACTING PROFESSOR DUBS

**368. Seminar.**—Bushnell, Channing, Emerson. Hours to be arranged. 2 s.h. PROFESSOR SMITH

**331. The Social Message of the Early and Medieval Church.**—Identical with Church History 331. T.Th.S. at 8:00. 3 s.h. ASSISTANT PROFESSOR PETRY

**362. Ethical Theory of Religious Education.**—Identical with Religious Education 362. T.Th.S. at 11:30. 3 s.h. PROFESSOR SMITH  
[Not offered in 1938-39]

**363-364. Religious Thought in the Rise of American Culture.**—Identical with Religious Education 363-364. M.W.F. at 9:10. 6 s.h. PROFESSOR SMITH  
[Not offered in 1938-39]

### SOCIOLOGY

At least five semester-hours of undergraduate sociology are prerequisite to all courses of the Department, except SR202 and 234. Sociology SR202 is designed especially for students whose undergraduate training in sociology has been inadequate. Such students who wish to pursue further work in the Department are advised to enroll in course SR202 as an elective as soon as possible after matriculation in the School of Religion.

**SR202. Sociology and Religion.**—The bearing of sociology upon religious problems and religious work. M.W.F. at 2:00. 3 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]

**\*205. Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. T.Th.S. at 8:00. 3 s.h. PROFESSOR JENSEN

**\*206. Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. T.Th.S. at 8:00. 3 s.h. PROFESSOR JENSEN

**\*212. Child Welfare.**—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. 3 s.h. PROFESSOR JENSEN

\* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

**\*219. Urban Sociology.**—This course studies the function of the city in the larger community which it nucleates both as market and as industrial center. More detailed attention, however, is given to the inner life and problems of the city. M.W.F. at 8:00. 3 s.h. ASSISTANT PROFESSOR THOMPSON

**\*220. Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the family farm, the peasant village, the ranch, and the plantation. In this course special attention is given to the plantation and the rural problems of the South. M.W.F. at 8:00. 3 s.h.

ASSISTANT PROFESSOR THOMPSON

**231. General Anthropology.**—A study of the origin and evolution of man as an animal and of the different races of mankind. The prehistoric human types, the principles of ethnology, and the characteristics of the Negro, Mongolian, American, and Caucasian races. M.W.F. at 10:20. 3 s.h.

PROFESSOR HART

**232. Cultural Anthropology.**—A study of social origins and of the earliest stages of cultural evolution; the stone and metal ages; the origins of industry, language, magic, religion, morals, science, art, and social organization in the family, horde, clan, and tribe. M.W.F. at 10:20. 3 s.h.

PROFESSOR HART

**233. The World Crisis in the Light of Social Anthropology.**—A course on the problem of present social changes in the light of the trends of human culture and of the dynamic processes through which men may take a part in determining the future of civilization. Prerequisite: Sociology 231. M.W.F. at 9:10. 3 s.h.

PROFESSOR HART

**234. Experimental Social Ethics.**—An attempt to measure as accurately as possible the qualities needed in social leaders—particularly the qualities having to do with the capacity for creative co-operation and insight—and to study the most promising methods available for cultivating those qualities. M.W.F. at 9:10. 3 s.h.

PROFESSOR HART

**\*242. Marriage and the Family.**—A survey of the problems connected with the institutions of marriage and the family in our civilization. M. 3:20-5:10. 2 s.h.

PROFESSOR GROVES (U. N. C.)

**316. Religion and the World Crisis.**—An inquiry into the bearings of religion upon past social evolution and upon the possible future development of a more ideal social order. Prerequisite: Sociology 233. Hours to be arranged. 3 s.h.

PROFESSOR HART

**317. Seminar in Anthropology.**—A seminar for students who wish to pursue individual studies in racial or cultural anthropology. Hours to be arranged. 1 to 3 s.h.

PROFESSOR HART

**\*319. Principles of Sociology.**—A critical study of sociological theory. The sociological theories of recent writers will be critically examined with a view to laying the foundation for a constructive theory of the social life in modern biology and psychology. T.Th.S. at 11:30. 3 s.h.

PROFESSOR ELLWOOD

**\*320. History of Social Philosophy.**—Lectures on the development of social thought from Aristotle to the present: the social philosophies of Plato, Aristotle, St. Augustine, Thomas Aquinas, Machiavelli, Bodin, Hobbes, Locke, Vico, Montesquieu, Rousseau, Condorcet, and the sociological systems of Comte, Spencer, Shaeffle, Lilienfeldt, Gumpлович, Ratzel, and Ward, will, among others, be considered. T.Th.S. at 10:30. 3 s.h.

PROFESSOR JENSEN

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\* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.



**421-422. Thesis Seminar.**—A seminar in thesis guidance for students majoring in Sociology. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis.) PROFESSOR HART

### HISTORY OF RELIGION AND MISSIONS

**281. Living Religions of the World.**—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism and Christianity, the object being to trace the historical development of each religion. T.Th.S. at 10:20. 3 s.h. PROFESSOR CANNON

**283. Expansion of Christianity.**—The spread of Christianity as interpreted in the light of political, social, economic, and other factors. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON

[Not offered in 1938-39]

**284. Comparative Religion.**—The ideas of God, sin, salvation, the future life, and ethics in the religions of the world. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON

**285. The Religions of India.**—A study of present-day religious movements in India, with special reference to Hinduism. T.Th.S. at 9:10. 3 s.h. [Not offered in 1938-39] PROFESSOR CANNON

**286. The Religions of the Far East.**—A study of the religious systems of China, Korea, and Japan. T.Th.S. at 11:30. 3 s.h. ACTING PROFESSOR DUBS

**287. Christian Missions in China.**—Early missions; Roman Catholic missions; Protestant beginnings; reaction and reorganization; the present situation. T.Th.S. at 10:20. 3 s.h. ACTING PROFESSOR DUBS  
[Not offered in 1938-39]

**288. Mohammedanism.**—The life of Mohammed and the religion of Islam, special attention being given to the Koran and its teachings. The aim is to interpret Mohammedanism as a force today. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON

[Not offered in 1938-39]

**289. Buddhism.**—India at the rise of Buddhism. Life of the Buddha and the teachings of early Buddhism. Development into the Hinayana and Mahayana schools, its spread and present condition in southern and eastern Asia. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON

**SR385. Missionary Promotion.**—The promotion of the missionary enterprise at the home base and abroad. Prerequisite: 281. T.Th.S. at 10:20. 3 s.h. PROFESSOR CANNON AND ACTING PROFESSOR DUBS

**481-482. Thesis Seminar.**—Problems of research in History of Religion and Missions. Open to advanced students on approval of the instructor. Prerequisite: six semester-hours in the department. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis.) PROFESSOR CANNON

### COURSES ON THE MIDDLE AND FAR EAST

In addition to the courses offered in the Department of History of Religion and Missions of the School of Religion, attention is directed to the following courses in various departments of Duke University dealing with Middle and Far Eastern civilizations.

**History of the Foreign Relations of the United States.**—6 s.h. History 215-216. PROFESSOR CLYDE

[Not offered in 1938-39]

**History of Modern Japan.**—A survey of institutional development, political, economic and social since 1850. 3 s.h. History 241. PROFESSOR CLYDE

**History of Modern China.**—A survey of institutional development, political, economic, and social since 1840. 3 s.h. History 242. PROFESSOR CLYDE

**Political Institutions of the Far East.**—A study of the governmental systems of Japan, Korea and China from the earliest times to the present. 3 s.h. Political Science 211. DR. LINEBARGER

**International Politics of the Far East.**—A study of changing power relationships in the Orient since the arrival of the Europeans. 3 s.h. Political Science 212. DR. LINEBARGER

**Chinese Philosophy.**—3 s.h. Philosophy 236. ACTING PROFESSOR DUBS  
[Not offered in 1938-39]

**Indian Philosophy.**—3 s.h. Philosophy 238. PROFESSOR WIDGERY



## GENERAL INFORMATION

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### FEES

Tuition is remitted to students matriculated in the School of Religion, for which they are expected to render from time to time service which shall not interfere with their work in the School of Religion.

Each student is assessed per semester as follows:

Matriculation fee .....	\$25.00
Library fee .....	5.00
Athletic fee .....	5.00
Publication fee (optional) .....	2.50
Hospital fee .....	5.00
Damage fee .....	1.00

Each student is assessed, in the last semester before a degree is conferred, a commencement fee of \$3.00 and a diploma fee of \$5.00. The latter fee is refunded if the diploma is not awarded.

### LATE REGISTRATION

Students matriculating in either semester at a date later than that prescribed in the catalogue shall pay to the Treasurer of the University a penalty of \$5.00.

### ROOMS

All rooms in the dormitories are provided with heat, water, and electric light. Each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Students must furnish their own electric lamps, which can be purchased from the University Store.

Rooms for a given year may be engaged at the office of the Director in the Business Division at any time before May 15 of the preceding year. Every student who wishes to retain his room for the succeeding year must notify the office of the Director in the Business Division on or before May 15. All rooms which have not been signed for on or before May 15 will be considered vacant for the succeeding year. A reservation is canceled, and the University is free to rent the room to other students, unless a deposit of \$5.00 for each proposed occupant, in part payment of the rent, is made by August 1. Further information concerning the rental of rooms can be secured from the Registrar of the School of Religion.

### BOARDING HALLS

The University dining hall in the University Union has accommodations for all the resident men students. It is the policy of the University to furnish board to the students at actual cost. Board may be secured at the Union for an amount not to exceed \$25 per month. The Union is the logical center of student activities, and all male students are advised to board in its supervised halls.

### STUDENT AID

Scholarships are available for students, the terms of which may be ascertained by correspondence with the Registrar of the School of Religion. Aid is also given in securing positions in churches. Students who need financial help may be assured that the administration will do all in its power to give the necessary assistance.

### THE LIBRARY

The School of Religion has its own library, conveniently housed in the School of Religion Building. The Library, which contains materials dealing with the subject of religion, already numbers nearly thirty thousand volumes. It has been carefully selected and is the equivalent in working efficiency of many libraries which are much larger. It is already rich in complete files of the more important journals and periodicals, in sets containing source materials for the study of the history of religion and missions, in facsimiles of the more important manuscripts of the New Testament, and in source materials in the field of American church history. The Library is being rapidly expanded. One of the outstanding possessions of the Library is a magnificent Greek manuscript of the thirteenth or fourteenth centuries containing the entire text of the New Testament.

Besides this special library, students of the School of Religion have the use of the General Library of the University, the Library of the School of Law, and the Library of the School of Medicine. All these libraries are located near the School of Religion Building.

### FACILITIES FOR ADVANCED STUDY IN THE AMERICAN SCHOOLS OF ORIENTAL RESEARCH

The School of Religion of Duke University is one of the supporting members of the American Schools of Oriental Research. This grants to students in the School of Religion the privilege of attending the American School in Jerusalem or the one in Bagdad without charge for tuition. They are also able to compete for the financial aids that are offered annually by the Schools. These consist of four fellowships, the stipends depending upon available funds.

### RELIGIOUS LIFE

The students of the School of Religion are expected to attend the regular University Chapel services which are held on Tuesday, Wednesday, and Friday of each week. A special chapel service for the School of Religion is held each Thursday morning.

In this, as in other features of the University life, the students of the School of Religion are urged to identify themselves with the life of the whole student group.

**DATE OF REGISTRATION**

Class work in the School of Religion for the academic session of 1938-39 will begin on Monday, September 26, 1938. The registration of students in the School of Religion will be held on Saturday, September 24, 1938.

**ADDITIONAL INFORMATION**

Requests for information not contained in this bulletin should be addressed to the Registrar of the School of Religion, Duke University, Durham, North Carolina.

# JUNALUSKA SCHOOL OF RELIGION

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## ANNOUNCEMENT

The eleventh session of the Junaluska School of Religion will be held at Lake Junaluska, North Carolina, from June 10 to July 22, 1938, in connection with the Junaluska Summer School, Inc. It will be conducted under the joint management of Duke University and the Board of Christian Education with the co-operation of the Board of Missions and other boards of the Methodist Episcopal Church, South.

The purpose is to conduct a summer school of religion to meet the growing demand for advanced study in the Bible, theology, religious education, missions, and allied subjects.

There will be two classes of students: those who are graduates of high schools and who may have had one or more years in college, and those who are graduates of colleges. The School is open to men and women. The credits secured for work done will be Duke University credits, and will count toward the A.B. and B.D. degrees.

The School is designed for pastors, church workers, missionaries, and students who desire to fit themselves better for their work or to add credits looking toward the securing of university degrees.

## INSTRUCTORS

ELMER TALMAGE CLARK, A.B., M.A., B.D., S.T.D., LL.D.

*Assistant Secretary, Board of Missions*

METHODIST EPISCOPAL CHURCH, SOUTH

KENNETH WILLIS CLARK, A.B., B.D., Ph.D.

*Assistant Professor of New Testament*

DUKE UNIVERSITY

MASON CRUM, A.B., Ph.D.

*Assistant Professor of Biblical Literature*

DUKE UNIVERSITY

PAUL NEFF GARBER, A.B., A.M., Ph.D.

*Professor of Church History and Director of the Junaluska  
School of Religion*

DUKE UNIVERSITY

JESSE MARVIN ORMOND, A.B., B.D.

*Professor of Practical Theology*

DUKE UNIVERSITY

## COURSES

Courses will be offered meeting five times a week for eighty-minute periods. Each course, satisfactorily completed, will receive a credit of three semester-hours in Duke University. Two such courses may be taken by each student. The courses offered are divided into two groups. The first group consists of courses for college undergraduates who are graduates of high schools and who desire credits looking toward the A.B. degree. The second group consists of courses for college graduates who desire credits looking toward the B.D. degree. These courses may also be taken by college undergraduates who have completed the Junior year and who are ranked as incoming Seniors in college.

## GROUP I

## FOR COLLEGE UNDERGRADUATES

**S169. Character Problems.**—Problems of youth in character building.  
*Period A.* Mr. CRUM

**S170. Religion and the Modern Home.**—A study of the American home in its contemporary social and religious aspects. *Period B.* Mr. CRUM

## GROUP II

FOR COLLEGE GRADUATES  
AND FOR COLLEGE SENIORS

**S210. The Religion of Jesus.**—A study of Jesus' personal religion as evidenced in the Gospels and other contemporary sources. The objective is twofold—to relate his beliefs and practices to his own environment and to observe the validity of underlying principles. *Period D.* Mr. K. W. CLARK

**S215. The Development of Early Christianity.**—A study of the beginnings and development of the Christian movement through the New Testament period, noting especially the emergence and significance of early Christian beliefs and practices. *Period B.* Mr. K. W. CLARK

**S235. Modern Religious Leaders.**—A study of outstanding individuals who have influenced the thought and program of the modern church. The life, work, and contributions of about twenty representative Christian leaders. *Period B.* Mr. GARBER

**S251. The Rural Church and Sociology.**—A study of the religious, social, educational, and economic conditions of the country; the historical development of the church in the midst of rural social relations; an attempt to discover the present obligation of the church. *Period A.* Mr. ORMOND

**S281. Missions in the Modern World.**—A survey of present religious conditions and the status of missionary work in the important mission fields; the great missionary agencies, their foundation and growth; social progress in home and foreign fields. *Period A.* Mr. E. T. CLARK

## ADDITIONAL INFORMATION

A registration fee of \$20.00 and a library and recreation fee of \$2.00 are due at time of registration.

Students are of course responsible for their own arrangements for board and room. Those desiring to engage room and board in the Board

of Christian Education lodges should write W. E. Hogan, 810 Broadway, Nashville, Tennessee. Those desiring to stay in the Mission Inn should correspond with J. F. Rawls, Doctors' Building, Nashville, Tennessee. Those desiring to room elsewhere should write to Business Manager, Southern Assembly, Lake Junaluska, North Carolina.

All sessions of the School will be held in the Mission Inn at Lake Junaluska.

Academic matters will be in charge of the Faculty of the School of Religion, Elbert Russell, Dean.

Those desiring further information concerning courses and conditions of work should address J. Q. Schisler, Board of Christian Education, 810 Broadway, Nashville, Tennessee, or Paul N. Garber, Registrar, School of Religion, Duke University, Durham, North Carolina.



## ROLL OF STUDENTS, SCHOOL OF RELIGION

### JUNIOR YEAR

Andrews, William Ed A.B., Wofford College, 1937.	Bryson City, N. C.
Arbaugh, Robert Newton A.B., Hendrix College, 1937.	Paragould, Ark.
Baker, Homer Ortho A.B., Wake Forest College, 1936.	Wake Forest, N. C.
Biggers, Sherrill Bost B.Ph., Emory, 1937.	Concord, N. C.
Brady, William Herman A.B., Duke, 1937.	Highfalls, N. C.
Brown, Raymond Odell A.B., High Point College, 1937.	High Point, N. C.
Bustle, Wade Robert A.B., Davidson College, 1937.	Statesville, N. C.
Crutchfield, Finis Alonzo A.B., Southern Methodist, 1937.	Vernon, Texas
Dodge, William Wesley A.B., American, 1937.	McLean, Va.
Evans, Joseph Claude A.B., Wofford College, 1937.	Anderson, S. C.
*Floyd, John Lewis A.B., Duke, 1938.	Gasburg, Va.
Foley, Lemley Peter A.B., Berea College, 1937.	Stuart, Va.
Freeman, Ralph Lexie B.S., Tennessee Polytechnic Institute, 1937.	Cumberland Furnace, Tenn.
Garrison, Robert Edmund A.B., Randolph-Macon College, 1937.	Dillwyn, Va.
Holder, Ray A.B., University of Mississippi, 1935; A.M., University of Mississippi, 1936.	Lucedale, Miss.
Kelley, Marvin Hess A.B., Hendrix College, 1937.	Holly Grove, Ark.
Kiker, Seaborn Martin A.B., Southern Methodist, 1937.	Greenville, Texas
Lee, Kyo Sun A.B., St. Paul's University, 1937.	Seoul, Korea
McLeod, Walter Grey A.B., Birmingham-Southern College, 1937.	Jackson, Ala.
Milstead, Harold Ashton A.B., St. John's College, 1937.	Chicamuxen, Md.
Morton, Weldon Bascom A.B., McMurry College, 1937.	Abilene, Texas

\* The degree of Bachelor of Arts will be conferred in June, 1938.

Nicholson, Ralph Herman A.B., Lenoir-Rhyne College, 1937.	Statesville, N. C.
Ratliff, Henry Marvin A.B., University of Texas, 1937.	Austin, Texas
Richardson, Henry Powell A.B., Emory and Henry College, 1937.	Narrows, Va.
Robertson, Minns Sledge A.B., Louisiana State, 1936.	Columbus, Ga.
Sides, William Cecil, Jr. A.B., Wofford College, 1936.	Kannapolis, N. C.
Simpson, Harold Ross A.B., Catawba College, 1937.	Altoona, Pa.
Stevens, Wyatt Millard A.B., Elon College, 1936.	Roanoke, Ala.
Taylor, Key Wesley B.R.E., Gordon College, 1936.	Compton, Calif.
Thompson, Jo Marie Asbury A.B., Greensboro College, 1937.	Mount Holly, N. C.
Triplett, Max A.B., Southwestern, 1937.	Hillsboro, Texas
Wheeler, Sterling Fisher A.B., Southern Methodist, 1937.	San Antonio, Texas

## MIDDLE YEAR

Barrs, William Kenneth A.B., Duke, 1937.	South Miami, Fla.
Bloodworth, Marcus Herring A.B., Randolph-Macon College, 1936.	Norfolk, Va.
Brandon, Joseph Max, Jr. A.B., Duke, 1936.	Morganton, N. C.
Bumgarner, George William A.B., Scarritt College, 1936.	Wilkesboro, N. C.
Coley, Herman Theophilus A.B., Wofford College, 1936.	Hillsboro, N. C.
Collins, Claude Ray A.B., Emory and Henry College, 1936.	Christiansburg, Va.
Dixon, William Randolph A.B., Wake Forest College, 1935.	Rocky Mount, N. C.
Ellzey, William Clark A.B., Southeast Missouri State Teachers College, 1936.	Perryton, Texas
Hamilton, John Reynolds A.B., Catawba College, 1936.	Salisbury, N. C.
Heckard, Cecil Linwood A.B., Wofford College, 1936.	Albemarle, N. C.
Higgins, James Silvester A.B., High Point College, 1937.	Guilford College, N. C.
Hubbard, Charles Spence A.B., University of North Carolina, 1936.	Sanford, N. C.
Hutchins, Walter Wilbur A.B., High Point College, 1935.	Apex, N. C.

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|--|-----------------------|
| Jarvis, James Clair<br>A.B., Morris-Harvey College, 1936.              | Hamlin, W. Va.        |
| Jones, Joseph Simeon<br>A.B., Elon College, 1932.                      | Mebane, N. C.         |
| Jones, Theodore Edward<br>A.B., Wofford College, 1935.                 | Marion, S. C.         |
| Lane, Daniel<br>A.B., Duke, 1913.                                      | Durham, N. C.         |
| Lindsay, Julian Astor<br>B.S., Virginia Polytechnic Institute, 1935.   | Washington, N. C.     |
| McCulley, Robert William<br>A.B., Lenoir-Rhyne College, 1936.          | Lenoir, N. C.         |
| Mallory, Rupert Talmage<br>A.B., Morris-Harvey College, 1936.          | Spring Hill, W. Va.   |
| Martin, Robert Vance<br>A.B., Wofford College, 1936.                   | Gastonia, N. C.       |
| Nicks, Robert Lee<br>A.B., Duke, 1937.                                 | Cedar Grove, N. C.    |
| O'Neal, Ernest Eugene<br>B.S., University of Mississippi, 1935.        | Saucier, Miss.        |
| Ousley, Carl Lee<br>B.S., Wake Forest College, 1935.                   | Wendell, N. C.        |
| Overton, James Hardy, Jr.<br>A.B., University of North Carolina, 1934. | Coinjock, N. C.       |
| Owens, William Hector<br>A.B., Centre College, 1931.                   | Danville, Ky.         |
| Page, Jack Ward<br>A.B., Duke, 1936.                                   | Rowland, N. C.        |
| Pittard, Jessie Leo<br>A.B., High Point College, 1936.                 | Roanoke Rapids, N. C. |
| Queen, Virgil Erwin<br>A.B., Catawba College, 1937.                    | Morganton, N. C.      |
| Reese, David Whitehead, Jr.<br>A.B., Wofford College, 1936.            | Greer, S. C.          |
| Reichard, James Charles<br>A.B., Davidson College, 1936.               | Bynum, N. C.          |
| Richey, McMurry Smith<br>A.B., Duke, 1936.                             | San Benito, Texas     |
| Rooks, John James<br>A.B., Birmingham-Southern College, 1936.          | Tampa, Fla.           |
| Ross, Courtney Beaman<br>A.B., Davidson College, 1935.                 | Elmwood, N. C.        |
| Schreyer, George Maurice<br>A.B., Wofford College, 1936.               | Fletcher, N. C.       |
| Shackford, Joseph Temple<br>A.B., Duke, 1934.                          | Rock Hill, S. C.      |
| Smith, Aubert Marlyn<br>A.B., High Point College, 1935.                | High Point, N. C.     |
| Soper, Elgar Clyde<br>A.B., Duke, 1936.                                | Olney, Md.            |

Tate, Robert Spence, Jr. A.B., Southern Methodist, 1936.	San Antonio, Texas
Vick, Thomas Marvin A.B., Southern Methodist, 1936.	Dallas, Texas
Watts, Ewart Goodell A.B., Southern Methodist, 1936.	Little Rock, Ark.
Williams, Melvin John A.B., Duke, 1936.	Durham, N. C.
Wood, Hoyt Hampton A.B., High Point College, 1936.	Denton, N. C.

## SENIOR YEAR

Bearden, Robert Edward Lee A.B., Henderson State College, 1935.	Russellville, Ark.
Budd, Allen Clark A.B., Duke, 1935.	Greenwood, Fla.
Greene, Johnnie Thomas A.B., Duke, 1936.	Rougemont, N. C.
Hardin, Elliott Wannamaker A.B., Wofford College, 1935.	Charlotte, N. C.
Holmes, Julian John A.B., Lenoir-Rhyne College, 1935.	Statesville, N. C.
Houck, Winton Robert A.B., Morris-Harvey College, 1935.	Maben, W. Va.
Hyde, Forrest Ervin A.B., Elon College, 1934.	Sanford, N. C.
Keller, Albert Freed A.B., Duke, 1935.	Norfolk, Va.
Kester, Grier Smith, Jr. B.S., University of South Carolina, 1933.	Columbia, S. C.
Lowman, Everett Herman A.B., Berea College, 1935.	Connelly Springs, N. C.
Mathison, Ovie Wilson A.B., Birmingham-Southern College, 1934.	Atlantic, N. C.
Miller, John Carlisle A.B., Birmingham-Southern College, 1935.	Malvern, Ala.
Morris, Clarence Poe A.B., High Point College, 1933.	Pinnacle, N. C.
Morton, Hilton Osro A.B., Redlands College, 1935.	Santa Ana, Calif.
Myers, Horwood Prettyman, Jr. A.B., Randolph-Macon College, 1935.	Nashville, Tenn.
Ormond, John Kern A.B., Duke, 1935.	Princeton, N. C.
Patterson, Floyd Merrill A.B., Southern Methodist, 1935.	Dallas, Texas
Rickard, Harry Cleveland A.B., Shepherd State Teachers College, 1935.	Churchville, Va.
Rink, James Edward A.B., Duke, 1935.	Winston-Salem, N. C.

Shives, Marshall Bell A.B., Lenoir-Rhyne College, 1935.	Lincolnton, N. C.
Smalling, James Arthur A.B., Emory and Henry College, 1934.	Bristol, Tenn.
Stephenson, Marion Osborne A.B., Duke, 1932.	Durham, N. C.
Swann, Edgar Allen A.B., Emory and Henry College, 1935.	Clifton Forge, Va.
Taylor, Paul Richard A.B., Elon College, 1934.	Lewisville, N. C.
Taylor, Voigt Otway A.B., Newberry College, 1929.	Columbia, S. C.
Waggoner, John Phillip, Jr. A.B., Duke, 1935.	Charlotte, N. C.
Warren, Millard Whitefield A.B., Duke, 1931.	Youngsville, N. C.
White, Percy Daniel A.B., Emory and Henry College, 1935.	Dare, Va.
Wilkerson, Milton Chick A.B., Hampden-Sydney College, 1933.	Mattoax, Va.
Young, James Doyne A.B., Lambuth College, 1930.	Pittsboro, N. C.











VOLUME 10

April, 1938

NUMBER 4-A

# BULLETIN OF DUKE UNIVERSITY

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REPORT OF THE PRESIDENT  
AND REPORTS OF OTHER OFFICERS

1936-1937



PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA



BULLETIN  
OF  
DUKE UNIVERSITY

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APRIL, 1938

NO. 4-A

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## TABLE OF CONTENTS

	PAGE
REPORT OF THE PRESIDENT OF DUKE UNIVERSITY TO THE BOARD OF TRUSTEES .....	7
REPORTS OF UNIVERSITY OFFICERS:	
Trinity College .....	21
The Woman's College .....	69
The Graduate School of Arts and Sciences .....	79
The School of Religion .....	86
The School of Law .....	93
The School of Medicine .....	100
The Duke Forest .....	107
The Summer School .....	118
The University Libraries .....	128
The University Press .....	137
The University Council on Research .....	139
Publications by Faculty Members .....	142
The Department of Public Relations and Alumni Affairs .....	168
INDEX .....	173



REPORT OF THE PRESIDENT  
OF DUKE UNIVERSITY



## REPORT OF THE PRESIDENT OF DUKE UNIVERSITY

### *To the Trustees:*

As President of the University, I herewith submit my own report, accompanied by reports of other officers of the University, for the year 1936-37.

Last year I was under the necessity of reporting the deaths of outstanding members of the University community, both from the Trustees and the Staff. Except the one named in Dean Baldwin's report for the Woman's College I am happy to say, in contrast with the sad record of last year, that no death has occurred this year in either group. My report will also disclose other sources of satisfaction for the year under review. Notable progress has been made in the Graduate School of Arts and Sciences, the Division of Engineering, the Division of Forestry, and in some of the departments of instruction.

Dean Glasson's report gives some indication of the inner development and achievements of the Graduate School from the beginning of graduate studies here up to the date of his report. A good many additions are now being made to the teaching staff of the Graduate School, and we will open the University in September with a Graduate School developed into one that will deserve to be considered among the good graduate schools in America. This, the most recent of our achievements, I account among the most significant in our service to higher education, although it may be the last to be properly appreciated and fully recognized.

With this strengthening of the teaching force in the Graduate School, library facilities and scientific equipment, I think, have kept pace. This year's report made for the Library by the Director shows continued progress and suggestions for still further growth. The Director also points out the satisfactory working of the program of co-operation between the library of Duke and the library of the University of North Carolina in the co-operative purchase and use of books, which was described with something more of detail in the report for 1935-36. According to the latest figures I have seen, the two libraries now have catalogued 831,524 volumes. Both libraries are growing and this library center will very soon approximate a million volumes. It ought to be larger, and we are going to use every resource within our power to build up a library center that will deserve to rank with the good ones of America. We are much indebted to the General Education Board of New York for stimulation and financial assistance in carrying forward this very



important undertaking, which without such stimulation and assistance might not have been undertaken.

There has been like increase in the opportunities for scientific research. This is particularly true of research facilities in the medical sciences. There are still great needs, as is pointed out in the report of the Committee on Research.

Engineering is set up as a division, with a chairman or director of the Division, and a chairman for each of the three Departments of Civil, Electrical, and Mechanical Engineering. The Division has a campus of its own that is being developed into a plant that is well adapted to its uses. This body of undergraduates, with its own campus, its own officers, and student life of its own, is seeing the growth of an admirable spirit among the students as well as among the officers and teachers. I am coming more and more to feel that we might constitute this division into a college of engineering, thus making three colleges in the University organization—Trinity College, the Woman's College, and the College of Engineering. The latter would have one advantage in being smaller, and therefore in the possibility of rapid development of institutional morale that might give it a sort of uniqueness among the several divisions of the University. A good many of us are watching this development with more than ordinary interest. Whatever we decide to do about that will not affect the quota of 2,000 that has been set as the limit on undergraduate men.

The Duke Forest and the Division of Forestry have developed to the point where we are now definitely planning to open a graduate school of forestry, with other teachers to be added, in 1938-39. This, I believe, will be one of three graduate schools of forestry in the United States. It will be the only one in the Southern area of the United States, an area that includes 40 per cent of the timber land of the entire country. It will be operated in connection with an already organized forest of some 5,000 acres immediately surrounding the University campus, which already constitutes a significant forestry experiment station in the middle section of North Carolina.

The country is, alas almost too late, waking up to the necessity for preserving the forests, and we expect the Duke School of Forestry to render service to a highly important cause. The School of Forestry and the Duke Forest are closely associated with the State and Federal forestry agencies, and we are particularly anxious for it to be useful to this state and region.

During the year 1937-38 I expect to give special thought to the School of Religion and its present problems and immediate further

development, as during the year 1936-37 I have been giving especial thought to the Graduate School and to Engineering and will continue to give thought to them.

Physics is among the departments that have been recently much strengthened. The Department is at the present time being fully organized and getting additions of competent and in some cases distinguished scientists. We have made a good beginning in Geology. The Departments of Chemistry and Biology were already well organized and well manned. Philosophy, Economics, Political Science, and Ancient Languages are other departments to which significant additions have been made.

More will be done in the English Department during the next two years to stimulate and give some training in writing. This will be begun in the Freshman year and continue through the three succeeding years. At least one of the sections in Sophomore English will give special emphasis to writing and opportunities will be provided for Juniors and Seniors to develop themselves in writing, both in prose and verse. We are planning to have a poet spend a period of some weeks here during one semester in the year 1938-39 to meet with students in groups and singly, and to make informal talks about his craft to those who are interested.

The University in the year 1937-38 will offer a good many courses on the Middle and Far East—courses in the history, political institutions, international politics, philosophy, art, and religion, especially of China and Japan. Most of these courses will be primarily intended for college students who as a part of their education desire to know something about Eastern civilizations, but they will be useful also to those who expect to go to the East as teachers or missionaries, in the diplomatic or other public service, on business, or just as travelers.

I call particular attention to Dean Davison's report. It shows substantial growth in the Medical School and Hospital, one of the very important divisions of the University. It also shows that there are still needs that ought to be met and that I hope can be met without undue delay. It also points out that in North Carolina and the South in general the ratio of physicians to population is well below the average for the country. So far as North Carolina is concerned this may be explained by the fact that the state is without large cities where doctors congregate, and perhaps to the further fact that until quite recently there has been no four-year medical school with adequate clinical facilities and therefore no influential medical and hospital center. There has been in recent years considerable progress in the number, quality, and distribution

of hospitals. This will tend to bring about a better distribution of physicians. But the rural areas will still need consideration. Some plan should be worked out by which qualified students from counties predominantly rural might be given medical education through loans and in some cases scholarships, on the understanding that they will return to the home county or at any rate to the country for practice, at least for a good many years. As the Dean's report will show, Duke is doing something along these lines. Much more ought to be done. At least some of these funds should be provided by the state. Provision, through loans or scholarships, might be made for an individual student and he should be left to select any approved medical school that he might prefer or that circumstances might make most available for his purposes.

Dean Horack calls attention to the fact that the storage capacity of the Law Library has about reached its limit, and to the further fact that the Law School could easily be turned over to the general uses of the University, provided another Law School Building could be had. As a matter of fact, it would be quite easy to incorporate the Law School Building into the General University Library and thereby take care of the needs of the Library for a good many years. Reference to my report published in April, 1932, will show that my original plan for the Law School was not to make the School of Law in Duke University just a professional training school for those who intend to practice at the bar, but a school that, along with professional preparation, will also provide liberal training in law as one of the social sciences closely allied with government, economics, and business administration. During the intervening years in the operation of the Law School one of its most significant developments has been the law review called *Law and Contemporary Problems*, and the ideas that underlie this review. Putting these two things together, it has in recent months occurred to me that we ought to have at Duke a school of law and business. Each would be kept small, like all units in the University, and each would be operated as a separate unit but in the same or adjoining building, with a common library and the closest co-operation. Plans are developing satisfactorily for the Centennial of Trinity College, about which Duke University is built, with the celebration itself coming on April 21, 22, and 23, 1939. I should be glad if a suitable building for law and business might be an outcome of our undertaking in connection with the celebration. This would have the added advantage of making unnecessary the large addition to the General University Library, the need for which was set forth in the statement concerning "The Duke Centennial Fund," sent out a year ago.

A graduate dormitory center must also be one of the outcomes of our Centennial undertakings. This should be built for the use of medical, law, theological, and graduate school students. We are already drawing plans for this graduate dormitory center, which is to house some six hundred students. This group is planned to correspond outwardly to the three groups now occupied by the undergraduates—Craven, Crowell, and Kilgo—and will be large enough to meet the needs of the students in these graduate and professional schools, with their several capacities as now operated. This would leave the dormitories the University now has entirely for undergraduates, and would give the University about the dormitory capacity it would need for its two thousand undergraduate men, including the undergraduates in engineering.

Another outcome, I feel quite sure, will be a museum of art that will meet out needs in that direction. It will be a teaching museum, and I hope can be made a sort of art center, but one that is put into the very heart of the life of this place and of this section. Art cannot be an isolated fact, but must grow out of the life and aspirations of the people of any given time and place. This should be closely tied up with the new undertaking here in writing, discussed elsewhere in this report, with the teaching of literature, history, and almost every other educational phase of University operation.

For several years we have been accumulating funds with which to complete the Gymnasium. I think the time has come to do this, and I hope that work may be begun on the Gymnasium, too, in 1938 or 1939. The original plan for enlarging the Gymnasium must be modified, the modification being due to the fact that basketball has grown beyond our expectations and creates a need here for a seating capacity of seven to eight thousand. This could be provided in a separate unit such as the original plans for the Gymnasium included, or by direct additions to and connection with the present gymnasium floor, if that should prove to be equally satisfactory and less expensive.

A building on the Woman's College campus looking just like the other dormitories was set apart for an apartment house. This is being transformed into a dormitory, and in the year 1938-39 will be available for students, and will correspondingly increase the quota that can be accepted there. With another shift that I believe will soon be possible, the number that can be received in the Woman's College will go to 1,000, the quota that has been set for women, and 2,000 for men. We look forward, then, to only 3,000 undergraduates. The five graduate and professional schools might ul-



timately be made ready to accept as many as 1,500 students, an average of 300 for each school. This possible total of 4,500 students might conceivably be reached within the next five to ten years. And we are not building, planning, or thinking of more than 4,500.

The Duke students represent many religious denominations. The larger of these denominational groups have been more or less loosely organized for a good many years and more compactly organized in very recent years. Plans are now in the making for the organization of a Duke University Interdenominational Church with a preacher, a director of religious activities, and an official board composed of student and Faculty representatives. Membership in the Duke University Church will be on the affiliate basis and will in no way affect church membership elsewhere. The Church is primarily intended for students whose residence in Durham is temporary, but the Church welcomes into its affiliate membership permanent residents of the University community who are members of a denominational church. The students are showing unusual interest in this undertaking and they look forward, as I do also, with high expectations to the increasing influence of the University Chapel and the activities that center in the Chapel.

In my report for 1934-35 I undertook to give some idea of the government and general administration of the University. I am here putting into the record a similar account of how we are now proceeding with its strictly educational administration.

The General Faculty of the University is composed of professors, associate professors, and assistant professors who have been elected to membership in the Faculty. Concerning questions that do not lie exclusively in the field of any one Faculty and questions of University educational policy this Faculty has the right to enact such regulations as it may deem necessary to carry on the instruction, advance the standard of work, and otherwise develop the scholarly aims of the University. The General Faculty recommends to the University Trustees such persons as it deems fit to receive academic degrees or other marks of academic distinction. This Faculty meets twice a year and at other times on the call of the President or Dean of the University or on the written request of five members.

The professional schools have their own faculties, each with its dean and other appropriate officers elected by the Executive Committee with the approval of the University Trustees, and each is authorized to perform any educational functions that lie in its field.

The Faculty Council includes the Deans and Assistant Deans of

Trinity College and the Woman's College, the Dean of the Graduate School, the Secretary of the General Faculty, the Chairman and Director of Undergraduate Studies in each department offering instruction in the undergraduate colleges of liberal arts and sciences, one additional member elected by each department that has five or more teachers giving instruction in arts and sciences, and such other University officials as may be appointed to membership in the Council by the governing bodies of the University. The Council meets once a month and considers questions of curriculum in the field of arts and sciences and other educational details and policies that are outside the functions of any one faculty.

The Council on Undergraduate Teaching consists of the Deans and Assistant Deans of Trinity College and the Woman's College and the teachers of all ranks who are devoting 50 per cent or more of their time to giving instruction in the colleges of the liberal arts and sciences. Courses to which both Seniors and graduates are admitted are understood as intended primarily for graduate students. The business of this Council is to stimulate good teaching and to find ways and means to make college teaching as effective as possible. It has the right to take such actions as may be necessary to promote these ends.

The Council on the Instruction of Freshmen is composed of the Dean of Undergraduate Instruction, the Dean of Freshmen, and the Supervisor of Freshman Instruction from each department offering courses for Freshmen. It considers policies and matters of detail as affecting Freshman instruction and also provision for the general welfare of Freshmen. The Freshman Council makes recommendations to the Faculty Council for action in matters of general policy. The Freshman Council has the power to call upon members of the Faculty for reports or other information pertaining to the instruction of Freshmen at such dates as it may determine.

The Council on Education for Women consists of the Dean of Women and of one representative from each department offering courses which are largely taken by women students. It shall consider matters of interest and policy relating to the instruction and general welfare of the women students of the University, and make recommendations to the President, or the Faculty Council. The members of the Council on Education for Women are appointed by the President of the University.

The Council on Engineering Instruction consists of the Chairman of the Division, the Secretary of the Division, the Dean of the University, the Chairman of the several departments in engineering, one representative to be appointed by the President of the Uni-



versity from each of the Departments of Mathematics, Physics, Chemistry, Economics, English. The Council deals with questions relating to instruction in engineering, the welfare of engineering students, and the cause of engineering in general.

The Council on Graduate Instruction consists of professors offering graduate instruction who have been appointed to the Council by the President of the University, together with the Dean of the Graduate School of Arts and Sciences and other officers who may be appointed by the President. It has general charge of all matters pertaining mainly to graduate instruction and the requirements for the higher degrees, and it recommends to the General Faculty and Trustees the names of candidates for the higher degrees.

From time to time I have requests from college presidents asking me for information concerning our procedures in awarding honorary degrees. For the benefit of those who may be interested I am giving here a brief account as to how we go about this and the history that has led up to our present procedure.

At the annual meeting of the Board of Trustees held in June, 1922, there was presented a communication from the Faculty dealing with rules and regulations governing the award of honorary degrees. After some discussion of the whole question it was voted that the Chairman of the Board of Trustees appoint a special committee of five, of which he should be one, to act with a like committee of the Faculty and the President of the College; and that the joint committee thus constituted be asked to make recommendations to the Board on the subject.

In due course the committee took up the matter and after careful consideration voted to recommend a plan that was approved by the Faculty and the Trustees and has since been followed. In accordance with this plan a joint advisory committee on honorary degrees was set up. The committee consists of five members of the Board of Trustees, one of whom is to be the Chairman of the Board and the others to be appointed by him and five members from the Faculty together with the President of the College who is to appoint the Faculty members. This standing committee makes its recommendations to the General Faculty of the University.

Honorary degrees are not conferred on any member of the Faculties or governing bodies while continuing in the service of the University, except in very rare cases of long and distinguished service. And this has not happened since the present plan has been in operation. No nominations for honorary degrees are made unless recommended by a practically unanimous vote of the joint committee. Honorary degrees are not conferred on persons who do not attend Commencement and receive the degree in person.

With this plan agreed upon by both the Faculty and Trustees the University has sought to uphold high standards of excellence in its awards. Those familiar with conditions before this plan was adopted and since its adoption feel that while the situation may not now be satisfactory to everybody it is clearly much better than the conditions that prevailed in former years.

The University in its organic law is committed to selective admission. Elsewhere in this report I have mentioned the limits that we have set on student enrollments. This limiting of students to the number that the University at any given time is equipped to teach well and the strict maintaining of a fixed quota, in the experience of practically all colleges and universities, has made it necessary to adopt some plan of selective admission. Manifestly, if only a fixed number can be admitted and the number of applicants is greater than the fixed quota, it is necessary to select applicants according to some principle, or follow the rule of first come, first serve. The latter would seem, in every way, to be unwise. It is not easy to determine just the applicants that will make the best college material or will do best in after life. But aside from the necessities in the case the selective process has some advantages, if the door of opportunity is always kept open to those who give promise of being able and willing to take advantage of the opportunities. There is a good deal of dissatisfaction with the results of education, and there may be justification for some of this dissatisfaction. It seems to me the call today is not so much for more education as it is for better education. It will be fortunate for America if a reasonable proportion of its colleges and universities set themselves the definite task of seeking to improve the quality of American education. To do this it is going to be necessary, in my opinion, for the colleges, and maybe high schools, by a well-developed system of selective admission, to assure themselves of better-selected and therefore fitter human material for their beginning classes. There is no good reason now why every high-school graduate, even though he may have only been able to squeeze through an approved high school and receive its diploma, should therefore be automatically admitted to college. In addition to this diploma he should be required to furnish evidence of some kind of excellence in high-school work and distinct aptitudes for college education, in short, of some gift for leadership or an active desire for what the college can give him. There are, of course, not too many students in college, or in high school, but there are many who do not belong there, at least unless they had come there through a more exacting process of admission. I realize that this search for excellence may seem to be undemocratic, but it is a kindness to every youth to teach

him that any successful or satisfying life is a strait and narrow way, that excellence dwells high among the rocks and to attain it we must wear out our very souls. I realize that it will require time to prepare a country like ours for this more rigorous standard of admission, but some of us have been bringing the matter to the attention of the people now for a good many years, and careful experimentation is going on in a good many places. This reform would at once tend to improve the quality of school and college education, and, if along with it could go improvements in the quality of teaching, we might look to see a new day in American education.

Schools and colleges must provide more adequate personal contacts,—contacts between teachers and students, and among the students themselves; and for this we shall need good living conditions, good social equipment, good teachers and a right proportion of teachers to students. And this will manifestly require not less money but more. To provide this without making education an intolerable burden, I feel sure that it will be necessary to raise college tuition fees above the rates charged in many American colleges. Well-equipped colleges, especially well-equipped universities with graduate and professional schools, must have costly plants, well-paid teachers, and a much higher proportion of teachers to students than is now found in the larger proportion of all kinds of American institutions of education. This makes education so expensive that even with much increased tuition charges the student will still pay only a part of the cost of his education. The rest of it must be borne by endowments, or by annual appropriations from legislatures or other sources. But there is an increasing number of patrons of colleges who are able to pay a considerable part of the cost of educating their children, and they ought to pay. Then, every college ought to have endowed scholarships, generous loan funds, and other student aids, so that no worthy and needy student would ever have the door of opportunity shut in his face. Whatever one's theoretical opinion may be on this subject, practically, I believe it is going to be found necessary to distribute the ever-growing burden of higher education in some such fashion as I have outlined. And I am glad to observe some evidence at least that this idea is finding an increasing popular acceptance in some sections of American public opinion.

The next step in education will be, I hope, a demand upon us to make education more effective, a demand that we make it actually take effect in the lives, and in the characters, of a larger proportion of our students and our graduates. There is a good deal to say for the view that the recent and even present distress of this country,

as of other countries, is not due so much to defects in particular economic and governmental systems as it is due to a breakdown in the intelligence and character of the people themselves, to a widespread moral deflation, to an inadequate and often false ideal of life under which we have developed a lopsided civilization, with periods of mushroom growth followed by terrible lapses, fat years succeeded by lean years.

The surest, indeed the only, way to make conditions better is to improve the human quality of civilization; that is, to lift the intelligence and the moral character of the people themselves. But how can these great results be achieved? Crime statistics and many other bad features of our civilization clearly show that they have not yet been achieved. I cannot enter here into a detailed discussion concerning the ways for achieving these high goals of education. The ways are difficult, and there are differences of opinion concerning them. But I am emphasizing the point that a well-organized society ought to provide adequate educational opportunity for the oncoming youth of each generation. In our existing civilization this is being done by taxation, by voluntary gifts, and by direct support of the patrons of education who are able to give this support. And I am seeking to enforce the point that it can be better done when we are wise enough to make the best possible use of all these means for the support of education in all its stages.

It is the duty of the student to earn the right to this opportunity. This he can do by his own efforts and his own achievements. For his own good and for the good of society, this ought to be required of him. A sound civilization cannot be built by a generation that has had schooling without cost to themselves or their parents, without any great effort on their own part, and without any sense of obligation to repay the debt they owe to society by their own efforts and achievements in school and afterwards in life. This is not the way to build a great civilization, but the certain way to build a race of half-educated, and sometimes half-respectable, panhandlers, who are not prepared to do honest work but rather seek short cuts that lead to false success and disappointment and too often end in poverty and even in crime.

It is the solemn obligation of education itself to make its opportunities full and rich, hold up high standards, and keep the door of opportunity wide open to those who can and who will really avail themselves of the opportunity. This, in brief, is my suggestion as the way to reconcile in education the great principles of democracy and excellence.

In the carrying out of our selective processes for admission there



are two points at which we must be on our guard. We are all the time on the lookout for students of ability, of whatever kind. In this search for intellectual ability it would be a mistake to rely too much on scholastic records. We want the most highly gifted students we can find, but we do not forget that the most useful gift vouchsafed to man on earth is the gift of wisdom. We, therefore, constantly look for students who have in them at least the capacity for stability of character and sobriety of judgment that make wise and good men and useful citizens in human society.

In our effort to get abler and better trained students we must also guard against losing this state and section. We welcome new friends and patrons but we are not willing to lose our old friends or their children "whose previous records show a character, determination, and application evincing a wholesome and real ambition for life." Other parts of the country have learned from experience that it is wise to apply early if the application is to receive the attention it deserves. Alumni, particularly those who teach in the schools in this region, can help by bringing to the attention of qualified students the necessity to make their arrangements for coming to Duke at least ten months before the time they would like to enter college. The alumni can be very useful to the University and to the cause if they will keep in touch with students who wish to come to Duke and who are of the type that ought to come, and if they will also see to it that the students are brought into touch with the appropriate officials of the University in time to make sure that no one is excluded merely by the fact that the application was made too late.

For all this to be achieved by any one institution will call for a great deal of co-operation with other institutions, particularly institutions in a given area. Educational standards, tuition charges, and many other important details can be worked out satisfactorily only by a group of institutions working together. For myself, I have an earnest desire to see at least all North Carolina institutions of education dedicated to the highest ideals of excellence and service. In this state, and in some institutions in near-by states, we ought to have, not in a narrow athletic sense and not in any exclusive sense, but in a full educational sense, a sort of "Ivy League" of institutions, no one of which would seek its own aggrandizement or glory, but each would pool its resources in the interest of the common cause, with no concern for size, but all aspiring to be not big but great, realizing that there all the honor lies. If this could be achieved, what a contribution we might make to the state and section and maybe to the destiny of the country!

W. P. FEW, *President.*

## REPORTS OF UNIVERSITY OFFICERS





## TRINITY COLLEGE

*To the President of the University:*

Statistical as well as other reports of members of the Dean's Staff of Trinity College cover the work of the College for the year 1936-37. I do not see the need of a further report from me bearing on it, and shall therefore merely preface their reports with a few remarks of a different nature.

I have previously called attention to the fact that because of lack of physical accommodation we were rapidly approaching a necessarily even more drastic limitation in the acceptance of undergraduate students. It is hoped that additional dormitories can soon be provided. While by no means in favor of a large enrollment, I do believe we might wisely accept several hundred more undergraduates. And without houses for graduate and professional students we know that many very desirable men who would like to study here are kept away because of the inconvenience of living off the campus.

I repeat also my conviction that we ought at once to enlarge the Physics Building in order that it may take care of the increased work of the Department of Physics, and of Geology, in which more courses must be offered. There simply is not space in the present building to accommodate physics much longer, and we are forced for lack of rooms both to restrict courses in geology and to limit the enrollment in those given.

A word about engineering. Years ago an effort was made to provide preliminary training for future engineering. No attempt was originally made to turn out engineers, but rather to prepare men who wanted later to enter schools of engineering. This work grew slowly and a department of electrical and civil engineering arose. Somewhat later instruction in mechanical engineering was provided, and four-year undergraduate courses in each of these branches of engineering were offered, but we conceived of the work still as departments of undergraduate work. Engineering students now have their own dormitory, in which a member of the Staff lives as adviser to the students, and adequate buildings and equipment. With the grouping of these branches into the Division of Engineering with its director and its administrative committee, there has developed a distinctly better administration of the work and greater efficiency. Added facilities both in buildings and equipment are now being provided; and at the opening of the College in 1937, the work of this division will be well taken care of. Graduates from the several departments of engineering have been for years "placed" almost without exception satisfactorily, and many are now practising their profession with success. The competent body of instructors in each of the three branches are all loyally devoted to their tasks and have rendered what I regard as excellent service. Professor W. H. Hall, Chairman of the Division, closes his report to me at the end of the year as follows:

"The complete renovation of the four engineering buildings is progressing in a very satisfactory manner. By the end of the next year we hope that the work will be finished. Judging by the improvements that have already been made, we think it is money well invested. The laboratories, classrooms, library, and offices will compare favorably with like facilities on either campus. Plans are being made to provide an additional building which will house the Strength and Materials and Hydraulics laboratories. Landscaping of the grounds around the buildings is also contemplated. With these improvements we should be able to accommodate between 200 and 225 students without any duplication of equipment, provided laboratory courses can be scheduled in the mornings as well as in the afternoons."

Our policy of selective admission to college, followed first by choice and more drastically by necessity, has undoubtedly given us better material to work with, intellectual and moral. Undoubtedly undergraduate work here has improved as shown by student grades, which are constantly studied comparatively in order that both instructors and our office may keep informed on this very important part of the college work. But the picture is not made clear solely by grades, for I know the standard of work demanded by instructors has been raised considerably within the past five years; and we are always endeavoring to improve still more the quality of intellectual work by students as well as the quality of undergraduate teaching. But I realize quite clearly that marked talent of several kinds evidenced by our undergraduates is not sufficiently taken into account in the set-up here and elsewhere, so far as I can find out. This may be inevitable. Nevertheless I should like to see more effort made to appeal to, and aid in the developing of, all worthwhile talent of our undergraduates, not simply through the curricula but by all other means that ought to be inherent in an organization called a college of liberal arts. I know that the spiritual make-up of the student body varies, and often in a marked degree, from year to year, and that consequently it is difficult to provide in advance each year the full spiritual ministrations. But it becomes increasingly pathetic to a close observer of undergraduate students for years to note the intellectual and spiritual waste so evident in their misdirected and aimless groping, all too often, to be sure, impatient of direction. Hence much of the needed guidance must be done more or less indirectly and more by example than precept. For example, I doubt if typical classroom instruction can ever be of much more than elementary help to a student of native literary ability and the ambition to write creatively.

I wish, therefore, that we might have in our midst each year as "guests" one or more real poets, novelists, dramatists, painters, sculptors, musicians, who through informal association with our more gifted students might woo them at least partway up Parnassus. Of course, I appreciate the difficulty of carrying out such a plan, but the inherent difficulty is no final argument against attempting it. Certainly residence on the campus for even a few months of an "arrived" artist, especially a writer, if he have willingness to confer with would-be artists of prom-

ise, would be of inestimable value to the young aspirants. And surely if ever in history, we need now to acquaint youth with art, to help them to appreciate and use it, to endeavor to create it. We seem now doomed to live our lives in the fog of daily news of the horrible and the inane, with which the world is engulfed. It is a sacred duty of colleges to lift youth above this fog into the bright light of beauty and serenity revealed through art. After all, the world is for us human beings largely what we make it. Surely we must save youth from the deadening conviction that our earth cannot again appear, actually become, a sphere of activity for the lovers of the noble and the beautiful.

WILLIAM H. WANNAMAKER, *Dean*.

#### UNDERGRADUATE INSTRUCTION

During the year 1936-37, the Curriculum Committee made a special study of the regulations governing the administration of the curriculum and recommended certain immediate changes that it felt were necessary in the light of our experience during the past five years. The recommendations were adopted by the Faculty at its regular meeting in February, 1937.

The more important changes were as follows:

1. The total amount of work that a student may take in any one department toward the Bachelor of Arts degree is limited to a maximum of thirty-six semester-hours; with the exception that a student whose principal work is in the Departments of English, Economics, or Romance Languages may be permitted to take additional work in sub-departments not to exceed a total in the department and sub-departments of fifty-four semester-hours.

2. In the General Group leading to the degree, the minimum number of hours required by a department for a major shall not include any course open primarily to Freshmen.

3. If the student's major work falls within the Division of the Natural Sciences, a maximum of eight hours of Freshman work in related fields may count as part of the forty-two hours required in a division of concentration.

4. The number of specific requirements in the Pre-Medical Group is reduced, and all students in this group must complete forty-two semester-hours in a division of concentration (subject to the regulations of the General Group).

5. The departments submitted statements setting forth the definite requirements of a departmental major. These requirements are printed in the catalogue for 1937-38.

At the close of 1936-37 and upon the suggestion of the Committee on Educational Research, a special committee was appointed by the President to make a detailed and intensive study of the curriculum. This Committee has been given ample time to make its study, complete its findings, and submit its proposals for the reorganization of the curriculum. The membership of the Committee is as follows:

Professor B. R. Jordan, *Chairman*  
Associate Professor G. A. Morgan, Jr.  
Associate Professor I. E. Gray  
Professor W. C. Vosburgh  
Associate Professor Taylor Cole  
Assistant Professor F. T. de Vyver  
Miss Ruth Addoms  
Miss Frances Brown  
Mrs. Katherine E. Gilbert

#### NEW EXAMINATION SCHEDULE PLAN

A new plan was adopted for scheduling examinations. All courses rated as typically Freshmen were scheduled for examinations in the afternoons. All other courses were scheduled for examinations in the mornings. The examinations were arranged in groups, and students were advised not to sign for more than one course in the group, unless they were willing to take two examinations on a given day.

#### HONORS WORK

*Departmental Honors* are offered in the Departments of Botany, Chemistry, Education, German, Greek, History, Mathematics, Philosophy, Physics, Psychology, Religion, and Zoology.

*Honors* within a *division of concentration* are available to qualified students in two groups of studies: (1) English literature (the major subject), fine arts, and philosophy in the Division of the Humanities; and (2) economics (major), political science (major), and philosophy, in the Division of the Social Sciences.

The following plan for *Honors* in the group composed of economics, political science, and philosophy was approved by the College Council on Honors and adopted by the Faculty in 1936-37.

1. *Eligibility*: The eligibility of the various applicants for Honors reading in this division shall be determined by the Divisional Committee and the Chairman of the Council on Honors after consultation with the departments involved. The candidate, however, must have completed Economics 51-52 and Political Science 61-62.

2. The work of the student electing this Honors group consists of the uniform minimum requirements with the addition of seven semester readings of Honors work and four three-hour courses.

- (a) The seven semester units of Honors work are distributed in the ratio of 3-2-2. That is, the student electing economics as his major subject takes three readings in economics, two in political science, and two in philosophy. The student electing political science takes three readings in that subject, two in economics, and two in philosophy.

- (b) The choice of the four three-hour courses is subject to the approval of the Divisional Committee.

3. The seven semester units of Honors work could be staggered as follows:



## MAJOR IN ECONOMICS

Junior Year :	<i>First Semester</i>	<i>Second Semester</i>
	Economics	Economics
	Political Science	Philosophy
Senior Year :	Political Science	Economics
	Philosophy	

## MAJOR IN POLITICAL SCIENCE

Junior Year :	<i>First Semester</i>	<i>Second Semester</i>
	Economics	Economics
	Political Science	Philosophy
Senior Year :	Political Science	Political Science
	Philosophy	

NOTE: It should be noted that the program as outlined above would permit a student to take but one Honors reading, that is, in his major field, during the second semester of his Senior year. This arrangement should allow the student to prepare himself for the comprehensive examinations.

4. For the first year or two it is suggested that the basic idea in this group should be economic and political theory. A suggested program of readings follows:

<i>Economics</i>	<i>Political Science</i>
1. History of Economic Thought	1. Political Thought
2. Social Economics	2. Comparative Government
3. Economic Organization	3. Government Regulation of Industry
	<i>Philosophy</i>
	1. Ethics
	2. Social Philosophy

5. The Divisional Committee may require that a thesis in the major subject be submitted in lieu of the papers normally required in one of the Honors readings.

6. *Examinations:* At the end of the Junior year the student will be required to take two comprehensive examinations. At the end of his Senior year he will be required to take four written comprehensive examinations and one oral examination.

7. The number of students admitted to this group for one year is limited to seven.

During the past year, a few changes were made in the organization of the *Honors Council* and in the *General Regulations* governing the administration of Honors work. These changes are embodied in what follows:

*College Council on Honors:* The College Council on Honors consists of a representative from each department in which Honors work is given. This representative is appointed by the President of the University. The Chairman of this Council is also appointed by the President.

The Council approves all Honors courses, approves the lists of Graduates with Honors submitted by the various departmental and divisional committees, and formulates such regulations as, from time to time, are found necessary for the proper conduct of an Honors program.



## GENERAL REGULATIONS

*Departmental Honors:* For the administration of its Honors course a departmental committee is chosen by each department.

The Honors Advisers are named by the Chairman of the Department (or by the Departmental Committee) in consultation with the Dean of the University and the President. These Advisers are ex-officio members of the Departmental Committee.

The Departmental Committee prescribes the work of candidates for Honors within its department, selects examiners for the general Honors examination, and in all other ways administers the work of the Honors course within its department.

The Departmental Committee determines the eligibility of the various applicants for admission to the Honors course.

A student makes application to the Chairman of the Departmental Committee to read for Honors at the close of the Sophomore year, and the "Departmental Honors Program" constitutes the major portion of his work during the Junior and Senior years.

The work required of students in a departmental Honors course consists of (1) the minimum uniform requirements; (2) forty-nine semester-hours of work in the honors and related departments; and (3) elective work sufficient to complete the semester-hours necessary for graduation in departments other than the Honors department.

The Honors Adviser will hold a weekly meeting (or weekly meetings) with candidates for Honors within his department, and at the end of each semester he must report to the Dean's Office whether the candidates are making satisfactory progress.

A general Honors examination is given by each department at the close of the Senior year. This examination is either written or oral, or both written and oral.

Every Honors student must pass with a grade of "C" or better each course of so-called related work approved for his program by his departmental committee.

Every candidate reading for Honors must have all his elective work approved by his departmental committee.

Each departmental committee may make its own regulations concerning the attendance of Honors students upon the courses taken in its department.

Upon the recommendation of his departmental committee, a student may be excused from final examinations in all courses in his department at the end of the Senior year.

Students who prove ill-adapted to Honors work may, on the advice of the Departmental Committee, return to one of the other groups and receive credit for courses taken and completed. In this case, work taken under an Honors Adviser may receive no more credit than regular courses give.

The College Council, upon the advice of a departmental committee, may remove a student from the list of candidates for Honors.

A student in any department who fails to qualify for Honors in the general examinations at the close of the Senior year may transfer to the General Group. In this case, the amount of credit to be given him for the work done under Honors Advisers will be determined by the Departmental Committee and the Dean of the College.

*Divisional Honors:* The student who is admitted to read for Honors in a division is required to attend one Honors reading a week in his major subject and one each week in one of his minors. He is also required to present a paper at each of these readings, or at least one in each, every other week.

The Honors reading shall meet for a minimum of two hours a week.

The number of students in an Honors reading is limited to seven.

The President of the University appoints teachers to conduct these readings.

The instructors thus appointed constitute a Committee on Honors whose functions it will be to pass upon the qualifications of all prospective students applying for admission to this Honors group and, in consultation with the Dean of Undergraduate Instruction, to decide upon all other matters of policy relative to Honors work within this group.

The President of the University appoints the Chairman of this Committee on Honors.

The Chairman of the Divisional Honors Committee must report to the Dean's Office, at the close of each semester, the standing of each student in his Honors readings.

Honors within a division of concentration are available to qualified students in two groups of studies: (1) English literature (the major subject), fine arts, and philosophy, in the Division of the Humanities; and (2) economics (major), political science (major), and philosophy, in the Division of the Social Sciences.

A divisional committee, in consultation with the Chairman of the Council on Honors and with the departments concerned, determines the eligibility of the various applicants for Honors readings within each of these groups.

The work of students admitted to read for Honors in English, fine arts, and philosophy consists of the minimum uniform requirements, electives of the Freshman and Sophomore years, and the "Honors Program," which includes eight semester units of Honors work distributed in the ratio of 4-2-2.

At the end of the Senior year, candidates for Honors in these three subjects are required to write a comprehensive examination of eight papers, each covering the material of one of the eight Honors readings.

The work of students admitted to read for Honors in economics, political science, and philosophy consists of the minimum uniform requirements, electives of the Freshman and Sophomore years, and the "Honors Program," which includes seven semester units of Honors work (distributed in the ratio 3-2-2) together with four three-hour courses subject to the approval of the Divisional Committee.

At the end of the Junior year the student is required to write two comprehensive examination papers. At the end of the Senior year, he is required to write four comprehensive examination papers. The written examination will be followed by an oral.

#### PROMOTION OF STUDENT SCHOLARSHIP

The committee, appointed in 1935-36 to study the matter of the promotion of student scholarship, was continued for the year 1936-37. Associate Professor Gohdes asked to be relieved of his responsibility as chairman of this committee, and Mr. Dressel was appointed in his place.

At the meeting of the Faculty in May, 1937, the Committee on the Promotion of Student Scholarship made its report on "absences, junior-senior reading-periods, and stimulation of student reading."

1. *Absences*: The Committee felt that it was difficult, in the case of students not on the Dean's List, to measure the effect of absences on grades. In general, it found that the better group of students had fewer absences than the group whose work was not so good. This would indicate some relation between scholarship and class attendance.

An investigation of the absence record of students on the Dean's List showed, in the judgment of the Committee, that the privilege of being on the Dean's List did not lead to excessive absence from class. The Committee expressed its desire to see the inauguration here of a system of voluntary class attendance, especially for upperclassmen.

With this aim in mind, the Committee recommended "that a qualitative requirement for remaining in college be established." It also recommended "that the Dean's List privilege be extended to include the fall semester of the Sophomore year."

2. *Junior-Senior Reading-Periods*: The consensus of opinion was that the system of *Reading-Periods* should not be extended to Juniors and Seniors.

3. *Stimulation of Student Reading*: Effective encouragement of students in the matter of extending their reading beyond mere course requirements is one of the most vital problems that concern the undergraduate college today. The Committee made a rather extensive investigation of the problem among students and Faculty members, and in its report were embodied many helpful suggestions. It seems to me that one recommendation, in particular, has decided merit—that of providing an attractive reading-room, with books on open shelves.

#### DISTRIBUTION OF STUDENTS BY DEPARTMENTS

In Table I is given the enrollment of students in the various departments for the year 1936-37.

TABLE I  
DISTRIBUTION OF STUDENTS BY DEPARTMENTS  
YEAR 1936-37

Department	The Two Colleges			
	Without Duplicates		With Duplicates	
	Fall Semester	Spring Semester	Fall Semester	Spring Semester
Botany.....	287	257	307	270
Chemistry.....	493	408	543	464
Economics and Business Administration ..	1,083	1,022	1,765	1,752
Education.....	445	434	505	496
Engineering (Civil and Mechanical).....	137	129	364	306
Engineering (Electrical).....	46	28	112	49
English.....	1,624	1,499	1,950	1,885
Fine Arts.....	176	207	197	228
Forestry.....	21	9	27	19
Geology.....	47	38	48	74
German.....	672	605	694	616
Greek.....	113	103	121	112
History.....	1,063	1,085	1,251	1,349
Latin.....	54	54	77	76
Mathematics.....	575	536	610	556
Music.....	37	33	38	34
Philosophy.....	270	246	282	264
Physical Education (Men).....	933	840	933	840
Physical Education (Women).....	661	642	744	746
Physics.....	324	324	366	359
Political Science.....	497	481	507	499
Psychology.....	351	194	391	230
Religion.....	629	646	654	707
Romance Languages.....	1,178	1,125	1,331	1,194
Sociology.....	180	167	225	200
Zoology.....	469	399	534	441

## DISTRIBUTION OF STUDENTS BY GROUPS

In Table II (A and B) is given the distribution of students by groups leading to the A.B. and B.S. degrees.

TABLE II  
A  
DISTRIBUTION BY GROUPS—TRINITY COLLEGE  
YEAR 1936-37

General (Bachelor of Arts) .....	498
Business Administration .....	396
Pre-Medical .....	280
Pre-Legal .....	191
Engineering .....	138
Honors .....	36
Religion .....	30
General (Bachelor of Science) .....	29
Teaching .....	26

Law-Academic .....	14
Special .....	12
Pre-Forestry .....	10
Medical-Academic .....	4
<i>Total</i> .....	1,664

TABLE II

## B

DISTRIBUTION BY GROUPS—THE WOMAN'S COLLEGE  
YEAR 1936-37

General (Bachelor of Arts) .....	637
Public School Teaching .....	78
Business Administration .....	28
Social Service .....	23
General (Bachelor of Science) .....	9
Honors .....	8
Pre-Medical .....	7
Pre-Legal .....	4
Religion .....	3
Academic-Law Combination .....	2
<i>Total</i> .....	799

## GENERAL HONORS

Students of the Freshman, Sophomore, and Junior classes who earn a credit of thirty semester-hours and an average of at least two and one-half quality-points per semester-hour are given Honors for the year. Students at graduation who have earned an increase of at least two and one-half quality-points per semester-hour are recommended for a degree *magna cum laude*. Students at graduation who have earned an average of at least two and three-fourths quality-points per semester-hour are recommended for a degree *summa cum laude*.

Table III gives the distribution of students winning General Honors in the two Colleges.

TABLE III

## FRESHMAN HONORS

Trinity College .....	15	The Woman's College .....	5
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## SOPHOMORE HONORS

Trinity College .....	15	The Woman's College .....	8
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## JUNIOR HONORS

Trinity College .....	14	The Woman's College .....	11
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## SENIOR HONORS

<i>Magna Cum Laude</i>		<i>Summa Cum Laude</i>	
Trinity College .....	8	Trinity College .....	6
The Woman's College .....	6	The Woman's College .....	2

## DEPARTMENTAL HONORS

At the graduating exercises of the 1937 Commencement, Honors in Chemistry were awarded to two students; in Economics, to two; in English, to six; in German, to one; in History, to four; in Mathematics, to one; and in Philosophy, to one.

Table IV gives the distribution of students reading for Honors in the various departments.

TABLE IV  
DEPARTMENTAL HONORS STUDENTS  
YEAR 1936-37

<i>Department</i>	<i>Seniors</i>	<i>Juniors</i>	<i>Sophomores</i>	<i>Total</i>
Chemistry.....	3	3	3	9
Economics.....	2	6	..	8
English.....	6	7	..	13
German.....	2	1	..	3
History.....	4	..	..	4
Mathematics.....	2	2	..	4
Philosophy.....	1	1	..	2
<i>Total</i> .....	20	20	3	43

## DIVISIONAL HONORS

In 1936-37, Honors within the Division of Humanities were available to qualified students in one group: English (major subject), fine arts, and philosophy. Seven Juniors completed the first year's work of this correlated group program.

## THE DEAN'S LIST

In Table V is given a comparative statement of the Dean's List for 1935-36 and 1936-37.

TABLE V  
THE DEAN'S LIST  
YEAR 1935-36

Fall 1935 .....	175
Men .....	104
Juniors .....	58
Seniors .....	46
Women .....	71
Juniors .....	40
Seniors .....	31



Spring 1936 .....	290
Men .....	169
Sophomores .....	60
Juniors .....	58
Seniors .....	51
Women .....	121
Sophomores .....	41
Juniors .....	47
Seniors .....	33
<i>Total for Year</i> .....	465

## YEAR 1936-37

Fall 1936 .....	181
Men .....	97
Juniors .....	54
Seniors .....	43
Women .....	84
Juniors .....	33
Seniors .....	51
Spring 1937 .....	269
Men .....	137
Sophomores .....	41
Juniors .....	45
Seniors .....	51
Women .....	132
Sophomores .....	37
Juniors .....	48
Seniors .....	47
<i>Total for Year</i> .....	450

## INSTRUCTION IN 1936-37

I am giving in Table VI (A and B) the list of courses in each department, together with the instructor or instructors in each course, that were given during the year 1936-37. With each course is given also a statement of the number and classification of the students enrolled. The abbreviations used are as follows: Gr., Graduate; Sr., Senior; Jr., Junior; Soph., Sophomore; Fr., Freshman; Adv. Fr., Advanced Freshman; Sp., Special.

TABLE VI  
A  
CORRELATION OF COURSES  
DUKE UNIVERSITY  
FALL SEMESTER, 1936-37  
DEPARTMENT OF BOTANY

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
1	Addoms, Anderson, Kramer, McNeill, Oosting, Perry.....	146	21	28	8	.....	.....	2	205
51	Addoms.....	1	4	5	1	.....	.....	.....	11
53	Wolf.....	2	5	17	12	.....	.....	.....	36
55	Oosting.....	.....	4	2	2	.....	.....	.....	8
101	Perry.....	.....	4	4	4	2	.....	.....	14
151	Kramer.....	.....	3	1	1	.....	1	.....	6
203	Anderson.....	.....	.....	.....	.....	1	1	.....	2
225	Kramer, Oosting.....	.....	.....	.....	.....	10	1	.....	11
341	Kramer.....	.....	.....	.....	.....	2	.....	.....	2
351	Kramer.....	.....	.....	.....	.....	2	.....	.....	2
359	Kramer.....	.....	.....	.....	.....	2	.....	.....	2
397	Addoms, Anderson, Kramer, Oosting, Perry, Wolf.....	.....	.....	.....	.....	8	.....	.....	8
<i>Total</i>	.....	146	24	48	37	20	27	5	307

## DEPARTMENT OF CHEMISTRY

1	Miss Brown, Gross, Hauser, Hill, Hobbs, Saylor, Wilson.....	247	10	16	1	.....	.....	1	275
61	Hill, Hobbs, Saylor, Vosburgh.....	7	15	63	9	2	.....	.....	96
151	Bigelow, Brown, Hauser.....	1	9	45	6	.....	1	.....	62
215	Hill, Vosburgh.....	.....	.....	2	1	7	.....	.....	10
241	Wilson.....	.....	.....	6	15	2	.....	.....	23
253	Bigelow, Brown, Hauser.....	.....	.....	.....	1	8	1	.....	10
261	Gross, Saylor.....	.....	.....	3	18	4	.....	.....	25
273	Gross.....	.....	.....	.....	1	12	.....	.....	13
275	Gross, Bigelow, Hauser, Saylor, Vosburgh.....	.....	.....	.....	3	13	1	.....	17
361	Gross.....	.....	.....	.....	.....	11	1	.....	12
<i>Total</i>	.....	254	26	88	66	47	57	5	543

## DEPARTMENT OF ECONOMICS

A	Landon, Lemert, Wallace.....	154	1	.....	.....	.....	.....	.....	155
51	Berry, Carney, Delaplane, Eckard, Hoover, Smith, Spengler, Wallace, Welfling.....	127	277	40	16	1	2	.....	463
57	Black, de Vyver, Keech, Shields, Springer.....	74	140	23	13	.....	.....	.....	250
103	Landon.....	4	11	28	15	.....	.....	.....	58
105	Berry, Keech.....	7	30	57	12	.....	.....	.....	106
115	Lemert.....	1	3	3	.....	.....	.....	.....	7
137	Springer.....	.....	4	4	.....	.....	.....	.....	8
143	Delaplane, Smith, Welfling.....	9	47	112	15	.....	1	.....	184
169	Smith.....	1	1	5	4	.....	.....	.....	11

DEPARTMENTS OF ECONOMICS (*Continued*)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Ado. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
171	Shields.....		3	11	34	5			53
173	Black.....				8	12			20
177	Shields.....			3	5	20			28
181	Springer.....			5	25	73			103
203	Glasson, Delaplane, Welfling.....			4	17	98	8		127
215	Hoover.....				3	16	11		30
217	Spengler.....				16	16	3		29
231	Hamilton.....				3	27	5		35
239	Hamilton.....					6	2		8
245	von Beckerath.....					3	3		6
253	de Vyver.....				3	18	2		23
265	Spengler.....				3	4	6		13
275	Black.....				6	12			18
311	Hamilton.....						6		6
313	Hoover.....						10		10
318	Hoover.....						8		8
Honors...	de Vyver.....				6				6
<i>Total</i>		154	226	530	395	392	65	3	1,765

## DEPARTMENT OF EDUCATION

1	Pullias, Watson.....	113	1						114
8	Childs, Easley, Eskridge.....	42	35	66	1				144
58	Easley.....			12	9	7			28
83	Proctor.....		4	7	6	3			20
101	Carr.....			2	13	11			26
103	Proctor.....		1	6	12	7			26
105	Childs.....			5	14	5			24
115	Childs.....			4		32	1		37
131	Carr.....				1	11			12
142	Carr.....		1	6	9	1			17
207	Carr.....					1	5		6
217	Easley.....						6		6
219	Brownell.....						4		4
233	Proctor.....					4	3		7
254	Proctor.....				1	7	4		12
294	Carr.....					6	1		7
307	Brownell.....						6		6
309	Brownell.....						2		2
Thesis	Proctor.....						7		7
<i>Total</i>		155	42	104	70	95	39		505

## DEPARTMENT OF ENGINEERING (CIVIL AND MECHANICAL)

1	Chapman.....	40	3	1		1		4	49
5	Lewis.....	34	1	1					36
11	Bird.....		2	6					8
15	Hall.....		2	9					11
79	Chapman.....		4	8	1	2		2	17
81	Reed.....		4	16		1			21
85	Chapman, Wilbur.....		5	18		1			24
107	Lewis.....		2	11	16	3			32

## DEPARTMENT OF ENGINEERING (CIVIL AND MECHANICAL) (Continued)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
113	Hall.....			4	4				8
117	Hall.....			5	4				9
119	Lewis.....					8			8
123	Hall.....					9	1		10
131	Bird, Lewis.....			8	8	2			18
133	Bird.....					8			8
143	Bird.....					3			3
183	Reed.....			3	5			1	9
187	Reed, Wilbur.....		1	6	11				18
189	Chapman, Reed, Wilbur.....			3	5				8
191	Wilbur.....					13			13
193	Chapman, Reed, Wilbur.....		1			12			13
195	Reed.....		1			13		1	15
197	Wilbur.....		1			15			16
199	Reed.....			3	6	1			10
<i>Total</i>		74	27	102	60	92	1	8	364

## DEPARTMENT OF ENGINEERING (ELECTRICAL)

91	Meier.....		2	9	1				12
151	Ranson.....			3	7				10
153	Meier, Ranson.....			5	9				14
155	Meier.....				1	7			8
159	Seeley.....				2	7			9
161	Seeley.....		1	3	6				10
163	Meier.....				1	7			8
165	Meier.....				2	7			9
257	Meier.....				2	7			9
261	Seeley.....				2	7	1		10
263	Seeley.....					8			8
265	Seeley, Meier, Ranson.....				1	4			5
<i>Total</i>			3	20	34	54	1		112

## DEPARTMENT OF ENGLISH

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Sch. Rel.</i>	<i>Total</i>
A	Fitzgerald, Harwell, Ward.....	63	20	5	1					89
1	Blackburn, Fitzgerald, Harwell, Mitchell, Patton, Miss Poteat, Sugden, Mrs. Vance, Ward, Mrs. White.....	618	9	1						628
2	Irving.....	18	9							27
53	Jordan.....	48	32	6	4					90
55	Blackburn, Irving, Sugden, Mrs. Vance.....	3	21	110	14	1				149
59	Anderson, Mrs. White.....	1	25	116	43					185
63	Mitchell, Patton.....	3	19	1	1					24

## DEPARTMENT OF ENGLISH (Continued)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Sch. Rel.</i>	<i>Total</i>
101	Mitchell.....	1		3	10	1				15
103	Blackburn.....		1	10	5	2				18
105	West.....		1	3	4	1				9
107	Sugden.....			9	16	3		1		29
119	West.....			5	18	13				36
121	West.....		2	15	6	2				25
123	Brown.....		2	5	5	7				19
125	Mrs. White, N. I. White.....			4	42	18				64
127	Greene.....		1	7	23	10				41
129	Mrs. Vance, White.....			8	19	11				38
137	Anderson, Gohdes.....		2	20	68	31				121
139	West.....	2	1	8	10	10		1		32
143	Greene.....			3	2	2				7
151	Herring, Lewis.....		5	27	86	43			1	162
201	Brown.....						9			9
203	Baum.....					6	8			14
205	Baum.....						3			3
213	Brown.....				1	3				4
215	Gilbert.....						7			7
219	Irving.....				1	6	8			15
227	Gilbert.....					13	6			19
229	Gohdes.....					1	4			5
233	Gohdes.....					23	4			27
301	Gilbert.....						12			12
303	Gilbert.....						3			3
313	White.....						11			11
Honors	Irving, Patton.....				6	7				13
<i>Total</i>		688	159	419	387	219	75	2	1	1,950

## DEPARTMENT OF FINE ARTS

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
1	McDonald.....	50	1						51
51	Miss Hall.....		9	44	13	5		1	72
52	McDonald.....		2	3	2	3			10
53	Miss Mayfield.....		1	7	4	2			14
103	Miss Hall.....			2	2				4
107	Miss Mayfield.....		1	10	7	10			28
111	Miss Mayfield.....			5	6	7			18
<i>Total</i>		50	14	71	34	27		1	197

## DEPARTMENT OF FORESTRY

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
51	Maughan.....				7	1	3		11
Bot.153	Harrar.....					1			1
253	Harrar.....						6		6
261	Coile.....						1	4	5
357a	Korstian.....						2		2
Thesis	Korstian.....						2		2
<i>Total</i>					7	2	4	14	27

## DEPARTMENT OF GEOLOGY

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
51	Berry.....		1	12	18	12			43
101	Berry.....				3	2			5
<i>Total</i>			1	12	21	14			48

## DEPARTMENT OF GERMAN

1	Krummel, Maxwell, Shears, Wilson, Wright.....	167	18	40	6	2	2	1	236
3	Krummel, Maxwell, Shears, Wilson, Wright.....	23	23	80	21	1			148
51	Vollmer.....	9	3	7					19
101	Maxwell.....		1	2	15	5	5		28
103	Wilson.....			1	9	10	1		21
107	Maxwell, Wannamaker.....		2	8	47	8	1	1	67
109	Krummel.....		1	7	18	11			37
113	Wilson.....	1	2	8	15	8			34
119	Vollmer.....			4	5	43			52
123	Shears.....			9	13	13			35
209	Krummel.....				2	4		1	7
211	Vollmer.....			1	2	4	1		8
301	Vollmer.....					1	1		2
<i>Total</i>		200	50	167	153	110	11	3	694

## DEPARTMENT OF GREEK

1	Truesdale.....	5	1	2	2		1		11
53	Truesdale.....			9	2	1			12
105	Peppler.....				1				1
107	Truesdale.....					1	1		2
115	Truesdale.....						2		2
117	Peppler.....					1	2		3
121	Peppler.....			10	15	43			68
131	Way.....			1	3	2			6
141	Way.....			1	6	2			9
203	Way.....						2		2
247	Way.....					1	2		3
303	Peppler.....						2		2
<i>Total</i>		5	1	23	29	51	12		121

## DEPARTMENT OF HISTORY

1	Miss Chaffin, Miss Foerster, Hamilton, Manchester, McCloy, Nelson, Mrs. Quynn.....	319	1						320
2	Woody.....	13	1						14
51	Miss Baldwin, Mabry.....		27	62	25	4			118
52	Munyan.....		20	43	15	3			81
65	McCloy.....		12	23	6	7			48
91	Lanning, Mabry, Shryock, Sydnor, Woody.....		63	139	49	35			286



DEPARTMENT OF HISTORY (*Continued*)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
101	Mrs. Quynn.....		1	3	11	6			21
113	Woody.....		3	5	12	5			25
119	Shryock.....			4	16	18			38
123	Laprade.....			14	59	21			94
125	Carroll.....		1	5	10	4			20
127	Lanning.....		3	7	16	6			32
209	Sydnor.....			1	2	4	3		10
211	Manchester.....				3	11	5		19
217	Carroll.....				3	11	12		26
223	Mrs. Quynn.....				2	3	3		8
225	Nelson.....			1	6				7
231	Lanning.....				3	12	2		17
305	Laprade.....						9		9
306	Boyd.....						12		12
308	Shryock.....						7		7
315	Boyd.....						7		7
317	Carroll.....						5		5
321	Lanning.....						3		3
322	Shryock.....						7		7
325	Laprade.....						9		9
Honors	Laprade, Shryock.....					8			8
<i>Total</i>		332	132	306	233	164	84		1,251

## DEPARTMENT OF LATIN

3	Gates.....	2			1				3
15	Rose.....			3	1				4
41	Gates.....	7		1	2				10
53	Rose.....		2	6	1	1			10
57	Rose.....		1	4	2				7
101	Rosborough.....				5	2			7
109	Gates.....				4				4
111	Rosborough.....			2	9	10			21
205	Gates.....					1	3		4
261	Rosborough.....						3		3
331	Rosborough.....						4		4
<i>Total</i>		9	3	16	25	14	10		77

## DEPARTMENT OF MATHEMATICS

1	Aldridge, Rankin.....	39	3	2		2			46
3	Aldridge, Dressel, Elliott, Greenwood, Hickson, Maria, Miles, Miller, Rankin, Roberts.....	279	5	11	3				298
4	Greenwood.....		10	8	1				19
7	Elliott, Miles.....	31							31
9	Patterson.....	38	3						41
50	Gergen, Rankin.....	2	1	14	3				20
55	Dressel, Miles, Patterson.....		7	40	3	3			53
71	Hickson.....		1	17	3	1			22
100	Elliott.....			3	5	2			10

DEPARTMENT OF MATHEMATICS (*Continued*)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
201	Rankin.....	.....	.....	.....	1	5	.....	.....	6
229	Carlitz.....	.....	.....	.....	1	.....	5	.....	6
231	Hickson.....	.....	.....	3	10	.....	.....	.....	13
235	Carlitz.....	.....	.....	.....	.....	1	4	.....	5
239	Elliott.....	.....	.....	.....	5	2	7	.....	14
255	Roberts.....	.....	.....	.....	.....	.....	6	.....	6
330	Maria.....	.....	.....	.....	.....	.....	3	.....	3
353	Gergen.....	.....	.....	.....	.....	.....	2	.....	2
375	Miles.....	.....	.....	.....	.....	1	3	.....	4
Honors	Carlitz, Hickson.....	.....	.....	.....	1	1	1	.....	3
Reading									
Courses	Gergen.....	.....	.....	.....	2	.....	.....	.....	2
Theses	Elliott, Carlitz, Gergen.....	.....	.....	.....	.....	.....	6	.....	6
<i>Total</i>	.....	389	30	88	38	18	37	.....	610

## DEPARTMENT OF MUSIC

63	Broadhead.....	.....	1	13	4	3	.....	.....	21
111	Broadhead.....	6	3	2	4	2	.....	.....	17
<i>Total</i>	.....	6	4	15	8	5	.....	.....	38

## DEPARTMENT OF PHILOSOPHY

98	Morgan.....	.....	10	23	10	3	.....	.....	46
101	McLarty, Morgan.....	.....	5	41	44	30	.....	.....	120
105	McLarty.....	.....	.....	6	27	21	.....	.....	54
203	Morgan.....	.....	.....	1	7	12	2	1	23
205	Widgery.....	.....	.....	.....	2	7	7	.....	16
209	Widgery.....	.....	.....	.....	1	1	3	4	9
301	Widgery.....	.....	.....	.....	.....	.....	6	.....	6
Honors	Widgery, McLarty.....	.....	.....	.....	7	1	.....	.....	8
<i>Total</i>	.....	.....	15	71	98	75	18	5	282

## DEPARTMENT OF PHYSICAL EDUCATION (MEN)

1A	Waite.....	22	2	4	.....	.....	.....	.....	28
1B	Waite.....	13	4	1	1	.....	.....	.....	19
1C	Gerard.....	30	4	2	3	1	.....	.....	40
3A	Warren.....	7	.....	1	.....	1	.....	.....	9
3B	Warren.....	1	.....	1	1	1	.....	.....	4
3C	Warren.....	5	1	4	1	.....	.....	.....	11
3D	Warren.....	2	4	2	1	.....	.....	.....	9
5A	Chambers.....	9	1	2	1	.....	.....	.....	13
5B	Chambers.....	2	.....	1	.....	.....	.....	.....	3
7A	Warren.....	3	3	2	2	3	.....	.....	13
7B	Waite.....	8	3	1	2	3	.....	.....	17
7C	Gerard.....	5	6	4	4	3	.....	.....	22
7D	Gerard.....	.....	.....	.....	1	2	.....	.....	3



## DEPARTMENT OF PHYSICS

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
1 and 51	Hatley, Carpenter, Edwards.....	93	26	72	28	1	.....	.....	220
57	Mouzon.....	.....	7	23	1	.....	.....	.....	31
59	Nielsen.....	.....	.....	4	8	2	.....	.....	14
61	Carpenter.....	.....	1	1	2	2	.....	.....	6
67	Kirby-Smith.....	.....	1	5	8	4	.....	.....	18
103	Constant.....	.....	1	1	2	1	.....	.....	5
203	Mouzon.....	.....	.....	.....	1	1	3	.....	5
205	Hatley.....	.....	.....	.....	.....	3	3	.....	6
213	Constant.....	.....	.....	.....	.....	2	10	.....	12
215	Mouzon, Nielsen.....	.....	.....	.....	1	4	3	.....	8
221	Constant.....	.....	.....	.....	1	5	5	.....	11
303	Nielsen.....	.....	.....	.....	.....	.....	5	.....	5
317	Mouzon.....	.....	.....	.....	.....	.....	4	.....	4
323	Sponer.....	.....	.....	.....	.....	.....	2	.....	2
325	Nielsen.....	.....	.....	.....	.....	.....	3	.....	3
351	Sponer.....	.....	.....	.....	.....	.....	6	.....	6
353	Hatley, Constant, Mouzon, Nielsen, Sponer.....	.....	.....	.....	.....	.....	10	.....	10
<i>Total</i> ..	.....	93	36	106	52	25	54	.....	366

## DEPARTMENT OF POLITICAL SCIENCE

21	Gibson, Simpson.....	42	2	.....	.....	.....	.....	.....	44
61	Wilson, Cole, Gibson, Searcy, Simpson...	.....	38	122	179	63	8	1	411
125	Cole.....	.....	.....	2	8	8	.....	.....	18
207	Wilson.....	.....	.....	.....	2	5	8	.....	15
225	Cole.....	.....	.....	.....	1	3	10	.....	14
227	Wilson.....	.....	.....	.....	.....	2	3	.....	5
<i>Total</i> ..	.....	42	40	124	190	81	29	1	507

## DEPARTMENT OF PSYCHOLOGY

101	McDougall, Lundholm.....	.....	.....	15	228	31	.....	.....	274
107	Lundholm.....	.....	.....	.....	1	4	.....	.....	5
205	Stern.....	.....	.....	.....	3	5	1	.....	9
209	Zener.....	.....	.....	.....	.....	.....	3	.....	3
211	Zener.....	.....	.....	.....	.....	2	4	.....	6
215	Adams.....	.....	.....	.....	3	12	5	.....	20
217	Adams.....	.....	.....	.....	.....	2	5	.....	7
219	McDougall.....	.....	.....	.....	2	4	14	1	21
223	Lundholm.....	.....	.....	.....	3	26	4	1	34
231	Rhine.....	.....	.....	.....	.....	1	.....	.....	1
305	McDougall.....	.....	.....	.....	.....	.....	7	.....	7
307	Rhine.....	.....	.....	.....	.....	.....	4	.....	4
<i>Total</i> ..	.....	.....	.....	15	240	87	47	2	391

## DEPARTMENT OF RELIGION

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
1	Crum, Myers, Ormond, Mrs. Spence.....	190	6	2	.....	.....	.....	.....	198
51	Myers, Spence, Mrs. Spence.....	36	68	9	.....	.....	.....	.....	113
101	Ormond.....	4	9	29	13	.....	.....	.....	55
103	Myers.....	4	18	18	10	.....	.....	.....	50
161	Spence.....	2	3	13	26	.....	.....	.....	44
163	Mrs. Spence.....	4	9	11	1	.....	.....	.....	25
169	Clark.....	.....	4	29	35	.....	.....	.....	68
201	Stinespring.....	.....	.....	.....	2	.....	.....	.....	2
203	Stinespring.....	.....	.....	.....	1	3	.....	.....	4
211	Clark.....	.....	.....	.....	1	.....	.....	.....	1
213	Russell.....	.....	.....	.....	3	6	.....	.....	9
233	Garber.....	.....	.....	.....	.....	2	1	.....	3
261	Smith.....	.....	1	.....	2	1	.....	.....	4
265	Spence.....	.....	.....	3	14	31	.....	.....	48
275	Hickman.....	.....	.....	.....	1	6	1	.....	8
281	Cannon.....	.....	.....	.....	2	9	.....	.....	11
283	Cannon.....	.....	.....	.....	.....	1	.....	.....	1
311	Branscomb.....	.....	.....	.....	.....	.....	1	.....	1
363	Smith.....	.....	.....	.....	.....	.....	4	.....	4
365	Smith.....	.....	.....	.....	.....	.....	1	.....	1
401	Stinespring.....	.....	.....	.....	.....	.....	1	.....	1
461	Smith.....	.....	.....	.....	.....	.....	3	.....	3
<i>Total</i> .....	.....	190	57	116	135	144	12	.....	654

DEPARTMENT OF ROMANCE LANGUAGES  
FRENCH

1	Bridgers, Neal Dow, Walton.....	61	9	9	4	1	1	.....	85
3	Webb, Bridgers, Cowper, Davis, Neal Dow, Harrison, Jordan, Quynn, Miss Raymond.....	226	29	58	11	8	1	.....	333
51	Bridgers, Cowper, Davis, Miss Raymond, Walton, Young.....	24	22	93	25	2	.....	1	167
53	Bridgers, Neal Dow, Jordan, Quynn.....	6	14	55	28	10	.....	.....	113
55	Mrs. Dow.....	1	.....	3	4	1	.....	.....	9
87	Davis, Miss Raymond.....	1	2	26	9	4	.....	.....	42
107	Cowper, Miss Raymond.....	.....	1	7	20	5	.....	.....	33
111	Young.....	.....	.....	21	20	8	.....	.....	49
113	Walton.....	.....	3	7	14	2	.....	.....	26
127	Mrs. Dow.....	.....	.....	.....	.....	3	.....	.....	3
215	Jordan.....	.....	.....	.....	3	17	3	.....	23
217	Webb.....	.....	.....	.....	1	7	3	.....	11
227	Walton.....	.....	.....	.....	.....	1	1	.....	2
317	Cowper.....	.....	.....	.....	.....	.....	5	.....	5
323	Jordan.....	.....	.....	.....	.....	.....	4	.....	4
<i>Total</i> .....	.....	319	80	279	139	69	18	1	905

## ITALIAN

181	Webb.....	.....	.....	.....	2	5	1	.....	8
<i>Total</i> .....	.....	.....	.....	.....	2	5	1	.....	8

## SPANISH

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
1	Avilés, Davis, Hasbrouck, Quynn, Young	113	21	24					158
3	Avilés, Hasbrouck, Lundeborg, Quynn	22	22	65	5	1			115
65	Avilés, Hasbrouck, Lundeborg	2	6	34	41	18			101
101	Hasbrouck			1	8	3	2		14
153	Lundeborg		1	5	10	6			22
261	Lundeborg				4	3	1		8
<i>Total</i>		137	50	129	68	31	3		418

## SUMMARY FOR THE DEPARTMENT OF ROMANCE LANGUAGES

French	319	80	279	139	69	18	1	905
Italian				2	5	1		8
Spanish	137	50	129	68	31	3		418
<i>Total</i>	456	130	408	209	105	22	1	1,311

## DEPARTMENT OF SOCIOLOGY

91	Jensen	4	42	15	6			67
101	Ellwood	2	10	22	20			54
109	Thompson		2	5				7
112	Jensen			13	6			19
205	Jensen			10	13	6	4	33
217	Ellwood		1	3	8	2	1	15
219	Thompson			3	10	4		17
319	Ellwood					7	2	9
330	Ellwood					4		4
<i>Total</i>		6	55	71	63	23	7	225

## DEPARTMENT OF ZOOLOGY

1	Pearse, Bookhout, Miss Culbreth,							
	Hargitt, Hopkins	239	18	33	11	1	2	304
53	Miss Culbreth, Gray		9	49	21	5	1	85
151	Hall			1	18	20		39
161	Pearse		1	1	19	7	4	32
173	Hopkins				2	1		3
219	Cunningham				1	2		3
229	Cunningham				2	8	3	13
303	Pearse						7	7
321	Hall						7	7
341	Hargitt						10	10
351	Pearse, Bookhout, Cunningham, Gray,							
	Hall, Hargitt, Hopkins						12	12
353	Pearse, Cunningham, Hall, Hargitt						13	13
355e	Pearse						6	6
<i>Total</i>		239	28	84	74	44	65	534



TABLE VI  
B  
CORRELATION OF COURSES BY DEPARTMENTS  
SPRING SEMESTER, 1936-37

## DEPARTMENT OF BOTANY

Course	Instructor	Fr.	Adv. Fr.	Soph.	Jr.	Sr.	Gr.	Sp.	Total
1	Kramer.....	11	1	3	.....	1	.....	.....	16
2	Addoms, Anderson, Duncan, Kramer, Oosting, Perry.....	107	4	37	20	3	.....	1	172
52	Anderson.....	.....	.....	4	3	.....	.....	1	8
53	Wolf.....	.....	.....	2	24	16	.....	.....	42
156	Oosting.....	.....	.....	1	3	4	.....	.....	8
202	Perry.....	.....	.....	1	.....	.....	3	.....	4
221	Wolf.....	.....	.....	.....	.....	.....	2	.....	2
226	Addoms, Kramer, Oosting.....	.....	.....	.....	.....	2	4	.....	6
342	Addoms.....	.....	.....	.....	.....	1	2	.....	3
360	Addoms, Kramer.....	.....	.....	.....	.....	.....	1	.....	1
398	Anderson, Addoms, Oosting, Perry.....	.....	.....	.....	.....	.....	8	.....	8
Total	.....	118	5	48	50	27	20	2	270

## DEPARTMENT OF CHEMISTRY

2	Gross, Miss Brown, Hauser, Hill, Hobbs, Saylor, Wilson.....	194	1	19	6	.....	.....	.....	226
70	Hobbs, Saylor, Vosburgh.....	5	.....	57	21	4	.....	.....	87
142	Wilson.....	.....	.....	4	3	7	.....	.....	14
152	Bigelow, Miss Brown, Hauser.....	.....	.....	4	34	10	.....	.....	48
154	Miss Brown.....	.....	.....	.....	.....	1	.....	.....	1
216	Gross, Hill, Vosburgh.....	.....	.....	.....	.....	2	8	.....	10
242	Wilson.....	.....	.....	.....	.....	17	2	.....	19
254	Big low, Miss Brown, Hauser.....	.....	.....	.....	.....	.....	6	1	7
262	Gross, Saylor.....	.....	.....	.....	3	14	3	.....	20
274	Gross.....	.....	.....	.....	.....	1	10	.....	11
276	Gross, Bigelow, Hauser, Saylor, Vosburgh.....	.....	.....	.....	.....	3	12	1	16
362	Gross, Vosburgh, Saylor.....	.....	.....	.....	.....	.....	10	1	11
Total	.....	199	1	84	67	59	51	3	464

## DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

B	Landon, Lemert, Wallace.....	187	1	.....	.....	.....	.....	.....	188
52	Berry, Carney, Delaplane, Eckard, Hoover, Smith, Spengler, Wallace, Welfling.....	.....	17	331	64	19	1	.....	432
58	Black, de Vyver, Kecch, Shields, Springer.....	.....	7	172	36	11	.....	.....	226
116	Lemert.....	.....	.....	.....	3	4	.....	.....	7
118	Lemert.....	.....	.....	1	2	1	.....	.....	4
138	Springer.....	.....	.....	.....	5	4	.....	.....	9
144	Delaplane, Smith.....	.....	.....	7	142	19	.....	.....	168
158	Berry, Kecch.....	.....	.....	4	104	16	.....	.....	124
168	Landon.....	.....	.....	5	40	36	.....	.....	81
172	Shields.....	.....	.....	3	43	7	.....	.....	53
174	Black.....	.....	.....	.....	1	20	.....	.....	21

## DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION (Continued)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
178	Shields.....				2	25			27
182	Springer.....				8	95			103
204	Glasson, Delaplane, Wellfing.....				12	112	2		126
216	Hoover.....				1	13	9		23
218	Spengler.....				7	27	1		35
232	Hamilton.....					29	3		32
236	Wellfing.....				4	5	2		11
240	Spengler.....				1	3	5		9
246	von Beckerath.....					1	2		3
256	de Vyver.....				4	17	1		22
266	Hamilton.....					4	4		8
276	Black.....				5	12			17
312	Hamilton.....					1	4		5
314	Hoover.....						10		10
Honors	de Vyver.....				6	2			8
<i>Total</i>		187	25	523	490	483	44		1,752

## DEPARTMENT OF EDUCATION

1	Pullias.....	28							28
4	Carr, Eskridge.....	29	1	30					60
8	Childs, Pullias.....	50	12	20	2				84
54	Holton.....			15	21	13			49
58	Easley.....			4	16	8			28
68	Easley.....			24	20	10			54
103	Proctor.....			11	23	14			48
112	Carr.....				11	11			11
116	Childs.....					30	1		31
200	Holton.....				3	5	11		19
206	Childs.....				2	1	6		9
208	Easley.....					1	3		4
209	Easley.....						8		8
218	Brownell.....				2	5	5		12
232	Carr.....					2	6		8
234	Proctor.....				1	8	4		13
237	Carr.....					3	3		6
300	Proctor.....						13		13
308	Brownell.....						5		5
309	Brownell.....						1		1
363	Proctor.....						5		5
<i>Total</i>		107	13	104	90	111	71		496

## DEPARTMENT OF ENGINEERING (CIVIL AND MECHANICAL)

2-4	Lewis.....	40	1	2		1			44
6	Lewis.....	27	1	1		1			30
8	Chapman, Lewis.....	1	1	29	1	1			33
80	Chapman.....	1	1	9	2	1			14
108	Hall, Lewis.....			2	22	2			26
112	Hall.....				1	7			8

## DEPARTMENT OF ENGINEERING (CIVIL AND MECHANICAL) (Continued)

Course	Instructor	Fr.	Adv. Fr.	Soph.	Jr.	Sr.	Gr.	Sp.	Total
114	Hall.....			1	6				7
118	Bird.....		3	1	6				10
120	Bird.....					8			8
124	Hall.....					9			9
132	Bird.....			1	6	1			8
134	Bird.....					8			8
184	Reed.....			1	8	1			10
188	Reed, Wilbur.....				15				15
190	Chapman.....				8				8
192	Wilbur.....				1	13			14
194	Reed, Wilbur.....				1	14			15
196	Reed.....			1		14			15
198	Chapman.....					15			15
200	Reed.....				7				7
240	Bird.....					2			2
Total		69	7	48	84	98			306

## DEPARTMENT OF ENGINEERING (ELECTRICAL)

92	Seeley, Meier.....			10	9				19
154	Meier, Ranson.....				22				22
156	Ranson.....					13			13
158	Ranson.....				2	7			9
162	Seeley.....				7				7
166	Meier.....				2	7			9
258	Meier.....				2	7			9
262	Seeley, Ranson.....				2	10	1		13
264	Seeley.....					7			7
266	Seeley, Meier.....				1	5			6
Total				10	47	56	1		114

## DEPARTMENT OF ENGLISH

1	Fitzgerald, Harwell, Miss Poteat, Ward..	79	2	1					82
2	Blackburn, Fitzgerald, Harwell, Mitchell, Patton, Miss Poteat, Sugden, Mrs. Vance, Ward.....	391	7	13	2				414
4	Brown, Gohdes, Irving, Mitchell, Sugden, Mrs. Vance, Ward, Mrs. White.....	190		3					193
53	Jordan.....		2	27	3	3			35
54	Jordan.....		1	7	5	2			15
56	Blackburn, Irving, Sugden, Mrs. Vance..	6	1	120	22				149
60	Anderson, Mrs. White.....	1	5	117	85	4			212
64	Mitchell, Patton.....		2	26	6				34
102	Mitchell.....	1		1	7	3			12
104	Blackburn.....			7	6	1			14
106	West.....			1	4	3			8
108	Sugden.....			6	18	6			30
120	West.....			5	19	19			43
122	West.....			10	9	3			22

## DEPARTMENT OF ENGLISH (Continued)

Course	Instructor	Fr.	Adv. Fr.	Soph.	Jr.	Sr.	Gr.	Sp.	Total
124	Brown.....			4	9	11			24
126	White, Mrs. White.....			1	38	30			69
128	Greene.....			3	28	15			46
130	Mrs. Vance, White.....				23	13			36
138	Gohdes, Hubbell.....			3	72	37			112
140	West.....	2		4	10	13		1	30
142	Jordan.....					18			18
144	Greene.....			1	4	5			10
151	Herring.....		2	17	15	6			40
152	Lewis.....		1	7	67	34			109
202	Brown.....						8		8
204	Baum.....					6	6		12
206	Baum.....						3		3
214	Brown.....					4	3		7
216	Gilbert.....					1	6		7
220	Irving.....					6	6		12
228	Gilbert.....					12	8		20
230	Hubbell.....					1	6		7
234	Gohdes.....					21	4		25
304	Gilbert.....						3		3
307	Hubbell.....						2		2
314	White.....						9		9
Honors	Blackburn, Irving.....				7	6			13
Total		670	23	384	459	284	64	1	1,885

## DEPARTMENT OF FINE ARTS

2	Miss Mayfield.....	43		1					44
51	Miss Hall.....		1	5	5	2			13
52	McDonald.....		2	54	23	8		1	88
54	Miss Mayfield.....			6	6	3			15
92	McDonald.....			2	14	10			26
108	Miss Mayfield.....			7	15	13			35
Honors	Miss Hall.....				7				7
Total		43	3	75	70	36		1	228

## DEPARTMENT OF FORESTRY

258	Harrar.....					1	5		6
264	Korstian.....					1	7		8
358a	Korstian.....						2		2
Thesis	Korstian, Coile.....						3		3
Total						2	17		19

## DEPARTMENT OF GEOLOGY

52	Berry.....			14	26	29			69
102	Berry.....				2	3			5
Total				14	28	32			74

## REPORT OF THE PRESIDENT

## DEPARTMENT OF GERMAN

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
2	Krummel, Maxwell, Shears, Wilson, Wright.....	135	1	49	6	.....	1	2	194
4	Krummel, Maxwell, Shears, Wilson, Wright.....	19	8	83	27	1	.....	.....	138
52	Vollmer.....	9	1	9	.....	.....	.....	.....	19
102	Maxwell.....	.....	.....	.....	15	4	4	.....	23
104	Wilson.....	.....	.....	1	9	7	.....	1	18
108	Maxwell, Wannamaker.....	.....	.....	5	40	16	1	.....	62
110	Krummel.....	.....	.....	5	25	10	.....	.....	40
114	Wilson.....	1	.....	3	12	.....	.....	1	21
120	Vollmer.....	.....	.....	.....	4	51	.....	.....	55
124	Shears.....	.....	.....	1	15	15	.....	.....	31
210	Krummel.....	.....	.....	1	.....	3	1	.....	5
212	Vollmer.....	.....	.....	1	2	5	1	.....	9
302	Vollmer.....	.....	.....	.....	.....	.....	1	.....	1
<i>Total</i>	.....	164	10	158	155	116	9	4	616

## DEPARTMENT OF GREEK

2	Truesdale.....	4	1	2	1	1	.....	.....	9
45	Truesdale.....	.....	.....	9	2	.....	.....	1	12
106	Truesdale.....	.....	.....	.....	1	.....	.....	.....	1
108	Truesdale.....	.....	.....	.....	.....	1	.....	.....	1
116	Way.....	.....	.....	.....	.....	1	1	.....	2
118	Peppler.....	.....	.....	.....	.....	1	2	.....	3
122	Peppler.....	.....	.....	1	16	48	.....	1	66
142	Way.....	.....	.....	1	2	9	.....	.....	12
204	Way.....	.....	.....	.....	.....	.....	2	.....	2
248	Way.....	.....	.....	.....	.....	.....	2	.....	2
304	Peppler.....	.....	.....	.....	.....	.....	2	.....	2
<i>Total</i>	.....	4	1	13	22	61	9	2	112

## DEPARTMENT OF HISTORY

1	Carroll, Woody.....	69	.....	.....	.....	.....	.....	.....	69
2	Miss Chaffin, Miss Foerster, Hamilton, Manchester, McCloy, Nelson, Mrs. Quynn.....	301	.....	1	.....	.....	.....	.....	302
51	Munyan.....	.....	1	43	16	1	.....	.....	61
52	Miss Baldwin, Mabry.....	.....	4	60	28	11	.....	.....	103
66	McCloy.....	.....	3	32	18	9	.....	.....	62
92	Lanning, Mabry, Shryock, Sydnor, Woody	.....	13	167	82	50	.....	.....	312
102	Mrs. Quynn.....	.....	.....	3	12	9	.....	.....	24
114	Lanning.....	.....	.....	5	36	38	.....	.....	79
120	Shryock.....	.....	.....	.....	14	24	.....	1	39
124	Laprade.....	.....	.....	1	62	34	.....	.....	97
126	Carroll.....	.....	.....	3	6	7	.....	.....	16
130	Manchester.....	.....	.....	1	22	14	.....	.....	37
210	Sydnor.....	.....	.....	.....	.....	.....	2	.....	9
218	Carroll.....	.....	.....	.....	.....	18	9	.....	27

## DEPARTMENT OF HISTORY (Continued)

Course	Instructor	Fr.	Adv. Fr.	Soph.	Jr.	Sr.	Gr.	Sp.	Total
224	Mrs. Quynn.....					5	3		8
226	Nelson.....					7			7
232	Lanning.....				3	18	2		23
305	Laprade.....						9		9
306	Boyd.....						14		14
308	Shryock.....						8		8
315	Boyd.....						10		10
318	Carroll.....						6		6
322	Shryock.....						7		7
325	Laprade.....						9		9
332	Lanning.....						3		3
Honors	Laprade, Shryock.....					8			8
Total	.....	370	21	316	299	260	82	1	1,349

## DEPARTMENT OF LATIN

4	Gates.....				1				1
16	Rose.....		1	1		1			3
42	Gates.....	7		1	2			1	11
54	Rose.....		1	6	1	1		1	10
58	Rose.....		1	2					3
102	Rosborough.....				5	2			7
112	Rosborough.....			1	6	8			15
132	Rose.....			3	5	7			15
206	Gates.....					1	3		4
262	Rosborough.....						3		3
332	Rosborough.....						4		4
Total	.....	7	3	14	20	20	10	2	76

## DEPARTMENT OF MATHEMATICS

1	Roberts.....	7							7
2	Aldridge, Rankin.....	41	1	2	3	1			48
3	Aldridge, Greenwood.....	40		1	2				43
4	Elliott, Dressel, Gergen, Greenwood, Hickson, Maria, Miles, Rankin, Roberts	228	2	17	6				253
10	Patterson.....	26	2						28
50	Elliott, Miles.....	24		2	3	1			30
55	Dressel, Rankin.....			23					23
74	Hickson.....			6	6	4			16
100	Gergen, Miles, Patterson.....			34	6		1		41
204	Rankin.....				1	7			8
230	Carlitz.....				1		4		5
231	Elliott.....			2	4	5	1		12
236	Carlitz.....						4		4
240	Elliott.....				4	2	6		12
256	Roberts.....						6		6
259	Hickson.....			1	3				4



DEPARTMENT OF MATHEMATICS (*Continued*)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
331	Maria.....					1	2		3
354	Gergen.....						2		2
376	Miles.....					1	3		4
Honors	Hickson.....				1	1			2
Reading									
Course	Gergen.....				2				2
Thesis	Elliott, Gergen, Maria.....						3		3
<i>Total</i>		366	5	88	42	23	32		556

## DEPARTMENT OF MUSIC

64	Broadhead.....	1		11	6	2			20
112	Broadhead.....	6		4	3	1			14
<i>Total</i>		7		15	9	3			34

## DEPARTMENT OF PHILOSOPHY

98	Morgan.....	2		16	5			1	24
101	McLarty.....	1	1	14	23	7			46
104	McLarty.....		1	12	22	20			55
106	Widgery.....			3	40	29			72
112	Morgan.....			4	8	5			17
204	McLarty.....				3	11	1		15
208	Morgan.....				2	5	7		14
210	Widgery.....					3	5	5	13
302	Widgery.....						6		6
Honors	Widgery.....				1	1			2
<i>Total</i>		3	2	49	104	81	19	6	264

## DEPARTMENT OF PHYSICAL EDUCATION (MEN)

2	Hendrickson.....	13	2	8	2	1			26
4	Warren.....	17		8		1			26
6	Chambers.....	12			1				13
8	Gerard, Persons, Waite.....	42	2	12	5	13			74
14	Persons.....	29		15	4	2			50
16	Gerard.....	6	1	12	5	1			25
18	Fogleman.....	73		23	14	7			117
20	Card.....	21	1	16	3				41
22	Gerard, Waite.....	30	1	13	4				48
26	Warren.....	9		7	4				20
28	Card.....	1		1					2
30	Caldwell.....	25							25
32	Caldwell.....	11							11
34	Warren.....	12		1	1				14
36	Fearing.....	23		3					26
38	Hagler.....	27							27
42	Persons.....	15							15
44	Fogleman.....	34							34

## DEPARTMENT OF PHYSICAL EDUCATION (MEN) (Continued)

Course	Instructor	Fr.	Adv. Fr.	Soph.	Jr.	Sr.	Gr.	Sp.	Total
46	Waite .....	40	.....	1	.....	.....	.....	.....	41
48	Williams .....	2	.....	1	.....	.....	.....	.....	3
56	Chambers .....	.....	1	9	6	1	.....	.....	17
62	Crichton, Hagler .....	3	.....	49	10	11	.....	.....	73
76	Fearing .....	.....	2	8	.....	.....	.....	.....	10
80	Coombs .....	.....	1	8	6	2	.....	.....	17
84	Warren .....	.....	1	3	1	.....	.....	.....	5
88	Hagler .....	.....	5	7	3	.....	.....	.....	15
90	Hagler .....	.....	.....	3	.....	1	.....	.....	4
92	Fogleman .....	.....	1	8	1	3	.....	.....	13
94	Persons .....	.....	1	12	3	1	.....	.....	17
96	Voyles .....	.....	.....	15	4	3	.....	.....	22
98	Williams .....	.....	.....	2	2	1	.....	.....	5
173	Chambers .....	.....	.....	1	1	2	.....	.....	4
Total	.....	445	19	246	80	50	.....	.....	840

## DEPARTMENT OF PHYSICAL EDUCATION (WOMEN)

Basketball....	Mrs. Bookhout, Miss Wyche.....	1	.....	21	23	3	.....	.....	48
Body	Miss Grout, Mrs. Bookhout, Miss	.....	.....	.....	.....	.....	.....	.....	.....
Mechanics..	Lewis, Miss Morris, Miss Wyche..	197	.....	6	8	2	.....	.....	213
Clogging.....	Miss Grout, Miss Lewis, Miss Morris.	1	1	59	44	6	.....	.....	111
Dancing.....	Miss Lewis.....	2	.....	14	16	6	.....	.....	38
Danish	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gymnastics.	Mrs. Bookhout.....	1	.....	42	26	3	.....	.....	72
Folk Dancing.	Miss Grout.....	.....	.....	22	24	1	.....	.....	47
Individual	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gymnastics.	Mrs. Bookhout, Miss Wyche.....	9	.....	9	9	2	.....	.....	29
Gymnastics...	Miss Wyche.....	.....	.....	20	11	3	.....	.....	34
Recreational	.....	.....	.....	.....	.....	.....	.....	.....	.....
Leadership.	Miss Morris.....	.....	.....	1	3	.....	.....	.....	4
Restrict	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gymnastics.	Mrs. Bookhout.....	5	.....	6	2	3	.....	.....	16
Stunts and	.....	.....	.....	.....	.....	.....	.....	.....	.....
Apparatus..	Miss Morris.....	.....	.....	3	3	.....	.....	.....	6
Swimming....	Mrs. Bookhout, Miss Lewis, Miss	.....	.....	.....	.....	.....	.....	.....	.....
	Morris, Miss Wyche.....	9	.....	12	12	3	.....	Nur- ses 31	67
Tap Dancing .	Miss Lewis.....	.....	.....	5	16	1	.....	.....	22
42	Miss Wyche.....	22	2	1	.....	.....	.....	.....	25
102	Miss Grout.....	.....	1	5	7	1	.....	.....	14
Total.....	.....	247	4	226	204	34	.....	31	746

## DEPARTMENT OF PHYSICS

2 & 52	Hatley, Carpenter, Edwards.....	81	3	86	33	5	.....	.....	208
58	Mouzon, Hatley.....	1	1	28	1	.....	.....	.....	31
60	Edwards.....	.....	.....	3	8	3	.....	.....	14
62	Carpenter.....	.....	.....	2	4	5	.....	.....	11
68	Hatley.....	.....	.....	1	8	2	.....	.....	11
104	Nielsen.....	.....	.....	1	10	1	1	.....	13

DEPARTMENT OF PHYSICS (*Continued*)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
204	Mouzon .....					1	2	.....	3
206	Hatley .....					6	6	.....	12
214	Constant .....					1	11	.....	12
216	Mouzon, Nielsen .....					4	3	.....	7
222	Constant .....					4	5	.....	9
304	Nielsen .....						5	.....	5
318	Constant .....						6	.....	6
324	Miss Sponer .....						2	.....	2
352	Miss Sponer .....						5	.....	5
354	Constant, Mouzon, Nielsen, Miss Sponer .....						10	.....	10
<i>Total</i> .....		82	4	121	64	32	56	.....	359

## DEPARTMENT OF POLITICAL SCIENCE

22	Gibson, Simpson .....	63	.....	1	.....	.....	.....	.....	64
62	Wilson, Cole, Gibson, Rankin, Simpson ..	8	123	215	31	.....	.....	.....	377
136	Cole .....		2	10	5	.....	.....	.....	17
226	Cole .....			1	3	9	.....	.....	13
228	Wilson .....					6	1	.....	7
230	Rankin .....				3	7	.....	.....	10
292	Rankin .....			1	4	3	.....	.....	8
328	Wilson .....					3	.....	.....	3
<i>Total</i> .....		63	8	126	227	46	28	1	499

## DEPARTMENT OF PSYCHOLOGY

101	Zener .....			12	44	2	1	.....	59
102	Zener .....			1	16	9	.....	.....	26
104	Adams .....			2	11	10	.....	.....	23
108	Lundholm .....				1	4	.....	.....	5
114	Rhine .....			4	28	8	.....	.....	40
202	Lundholm .....				5	14	2	.....	21
212	Stern .....				3	9	6	.....	18
228	Lundholm .....				2	4	8	4	18
232	Rhine .....				1	2	.....	.....	3
304	Lundholm .....						1	.....	1
306	Adams .....						8	.....	8
310	Rhine .....						8	.....	8
<i>Total</i> .....				19	111	62	34	4	230

## DEPARTMENT OF RELIGION

2	Crum, Myers, Ormond, Mrs. Spence .....	240	.....	.....	.....	.....	.....	.....	240
52	Myers, Spence, Mrs. Spence .....		7	95	25	2	.....	.....	129
102	Ormond .....			2	40	15	.....	.....	57
163	Mrs. Spence .....		1	10	4	2	.....	.....	17
170	Crum .....		1	1	38	42	.....	.....	82
202	Stinespring .....				2	.....	.....	.....	2

DEPARTMENT OF RELIGION (*Continued*)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
204	Stinespring.....	.....	.....	.....	.....	6	.....	.....	6
212	Clark.....	.....	.....	.....	1	.....	.....	.....	1
214	Russell.....	.....	.....	.....	1	7	.....	.....	8
216	Myers.....	.....	.....	4	21	19	.....	.....	44
234	Garber.....	.....	.....	.....	1	1	1	.....	3
262	Spence.....	.....	.....	.....	7	1	.....	.....	8
268	Spence.....	.....	.....	1	7	21	.....	.....	29
270	Spence.....	.....	.....	1	5	43	.....	.....	49
282	Cannon.....	.....	.....	.....	1	22	.....	.....	23
312	Branscomb.....	.....	.....	.....	.....	.....	1	.....	1
362	Smith.....	.....	.....	.....	.....	1	1	.....	2
364	Smith.....	.....	.....	.....	.....	.....	5	.....	5
461	Smith.....	.....	.....	.....	.....	.....	1	.....	1
<i>Total</i> .....	.....	240	9	114	153	182	9	.....	707

## DEPARTMENT OF ROMANCE LANGUAGES

## FRENCH

2	Bridgers, Dow, Walton.....	55	1	13	4	2	1	.....	76
4	Webb, Cowper, Davis, Dow, Harrison, Jordan, Miss Raymond, Quynn.....	188	4	59	15	10	.....	1	277
52	Bridgers, Cowper, Davis, Miss Raymond, Walton, Young.....	23	4	99	33	5	.....	1	165
54	Bridgers, Dow, Jordan, Quynn.....	5	1	53	30	14	.....	.....	103
56	Mrs. Dow.....	.....	1	3	1	6	1	.....	12
88	Davis, Miss Raymond.....	1	.....	23	13	4	.....	.....	41
108	Cowper, Miss Raymond.....	.....	.....	9	20	1	.....	.....	30
112	Young.....	.....	.....	21	21	5	.....	.....	47
114	Walton.....	.....	.....	5	7	1	1	.....	14
128	Mrs. Dow.....	.....	.....	1	1	1	.....	.....	3
216	Jordan.....	.....	.....	.....	2	17	3	.....	22
218	Webb.....	.....	.....	.....	1	12	3	.....	16
232	Cowper.....	.....	.....	.....	.....	1	4	.....	5
324	Jordan.....	.....	.....	.....	.....	.....	4	.....	4
328	Walton.....	.....	.....	.....	.....	.....	4	.....	4
<i>Total</i> .....	.....	272	11	286	148	79	21	2	819

## ITALIAN

182	Webb.....	.....	.....	.....	2	5	.....	.....	7
<i>Total</i> .....	.....	.....	.....	.....	2	5	.....	.....	7

## SPANISH

2	Avilés, Davis, Hasbrouck, Quynn, Young.	80	7	25	4	1	.....	.....	117
4	Avilés, Bridgers, Hasbrouck, Lundeberg, Quynn.....	28	8	70	16	1	.....	.....	123

DEPARTMENT OF ROMANCE LANGUAGES  
SPANISH (*Continued*)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
66	Hasbrouck, Lundeborg.....	3	2	19	46	20	.....	.....	90
102	Hasbrouck.....	.....	.....	.....	7	2	2	.....	11
154	Avilés.....	.....	.....	4	6	8	.....	.....	18
262	Lundeborg.....	.....	.....	1	2	5	1	.....	9
<i>Total</i>	.....	111	17	119	81	37	3	.....	368

SUMMARY FOR THE DEPARTMENT OF ROMANCE LANGUAGES

French.....	272	11	286	148	79	21	2	819
Italian.....	.....	.....	.....	2	5	.....	.....	7
Spanish.....	111	17	119	81	37	3	.....	368
<i>Total</i>	383	28	405	231	121	24	2	1,194

DEPARTMENT OF SOCIOLOGY

92	Jensen.....	.....	.....	37	14	11	.....	.....	62
102	Ellwood.....	.....	2	6	14	8	.....	.....	30
114	Thompson.....	.....	.....	2	20	19	.....	.....	41
202	Jensen.....	.....	.....	.....	.....	.....	.....	3	3
206	Jensen.....	.....	.....	.....	10	14	3	1	28
218	Ellwood.....	.....	.....	.....	2	10	4	.....	16
220	Thompson.....	.....	.....	.....	3	6	5	.....	14
320	Ellwood.....	.....	.....	.....	.....	.....	4	2	6
<i>Total</i>	.....	.....	2	45	63	68	16	6	200

DEPARTMENT OF ZOOLOGY

2	Bookhout, Miss Culbreth, Gray.....	200	4	38	20	.....	1	1	264
92	Cunningham, Bookhout.....	.....	1	44	19	6	3	1	74
114	Hopkins.....	.....	.....	2	4	5	.....	.....	11
156	Hargitt.....	.....	.....	.....	1	17	4	.....	22
216	Hopkins.....	.....	.....	.....	.....	5	3	.....	8
220	Cunningham, Gray.....	.....	.....	.....	.....	3	2	.....	5
256	Hall.....	.....	.....	.....	.....	21	.....	.....	21
304	Pearse.....	.....	.....	.....	.....	.....	2	.....	2
306	Pearse.....	.....	.....	.....	.....	.....	1	.....	1
324	Hall.....	.....	.....	.....	.....	.....	7	.....	7
352	Pearse, Bookhout, Cunningham, Gray, Hall, Hargitt, Hopkins.....	.....	.....	.....	.....	.....	11	.....	11
354	Pearse, Hall, Hargitt, Hopkins.....	.....	.....	.....	.....	.....	13	.....	13
356d	Hopkins.....	.....	.....	.....	.....	.....	2	.....	2
<i>Total</i>	.....	200	5	84	44	57	49	2	441

W. K. GREENE,  
*Dean of Undergraduate Instruction.*

ADMISSIONS TO TRINITY COLLEGE  
1936-37

In the selection of Freshmen the Committee used all sources of information available concerning the student's personal and scholastic qualifications. We requested, in addition to the complete scholarship record of the applicant, his rank in his class, scores on psychological examinations, Regents grades, and College Board grades when available. The applicant's personal qualifications, as well as his scholastic ability, were judged in a large measure by confidential reports from school officials and others in positions to know him. Information from alumni and students is proving useful. Personal interviews are very helpful and are being encouraged. We are now considering the appointment of a committee of alumni to interview applicants from the metropolitan district. A limited number of high- and preparatory-school graduates were required to validate their scholastic records by passing entrance examinations. We are continuing our study of the examinations given during the orientation program for the purpose of sectioning, in order that we may more wisely determine their use in admissions.

In recent years we have been able to accept very few students by transfer from other colleges. During the year 1936-37 thirty-three transfer students were accepted. The limited number of vacancies in the three upper classes is attributable in part to the selective policy of admission. Undoubtedly limited class enrollment, improved teaching, and more adequate facilities are contributing their share. The student mortality report, made each year, shows a decided increase in the percentage of students earning degrees in 1936 and 1937 and causes us to feel that a careful selection of students is highly desirable. Having so few vacancies for transfer students caused us to feel more keenly the need of a careful check on the records made here by transfer students. In the spring of 1937 we made a five-year study of the records of all transfer students.

The following tables concerning new students, especially Freshmen, will be of interest.

TABLE I  
GEOGRAPHICAL DISTRIBUTION—FRESHMEN  
1936-37

<i>State</i>		<i>State</i>	
Alabama .....	2	Korea .....	1
Arkansas .....	2	Maine .....	1
California .....	4	Maryland .....	14
Canada .....	1	Massachusetts .....	15
Connecticut .....	15	Michigan .....	4
Cuba .....	5	Mississippi .....	2
Delaware .....	4	Missouri .....	2
District of Columbia .....	7	Minnesota .....	1
England .....	1	New Hampshire .....	2
Florida .....	14	New Jersey .....	53
Georgia .....	9	New York .....	92
Illinois .....	4	North Carolina .....	114
Indiana .....	2	Ohio .....	18
Kentucky .....	8	Pennsylvania .....	57



Philippines .....	1	Virginia .....	10
Rhode Island .....	1	West Virginia .....	11
South Carolina .....	7		
Tennessee .....	5	<i>Total</i> .....	492
Vermont .....	3		

TABLE II  
RELIGIOUS DISTRIBUTION OF FRESHMEN  
1936-37

Baptist .....	40	Moravian .....	3
Brethren .....	1	None .....	32
Canadian Presbyterian .....	1	Plymouth Brethren .....	1
Catholic .....	47	Presbyterian .....	81
Christian Church .....	9	Protestant .....	3
Christian Scientist .....	5	Quaker .....	1
Church of Christ .....	2	Reformed .....	2
Community .....	1	Union .....	1
Congregational .....	16	Unitarian .....	1
Dutch Reformed .....	3	United Brethren .....	1
Episcopal .....	72	United Presbyterian .....	2
Evangelical .....	1	Zions English Lutheran .....	1
Hebrew .....	11		
Lutheran .....	26	<i>Total</i> .....	492
Methodist .....	128		

For the sake of comparison, I give here the geographical and religious distribution of all students in Trinity College.

TABLE III  
GEOGRAPHICAL DISTRIBUTION—UNDERGRADUATE MEN OF TRINITY COLLEGE  
1936-37

<i>State</i>		<i>State</i>	
Alabama .....	13	Massachusetts .....	38
Arkansas .....	6	Michigan .....	13
California .....	3	Mississippi .....	7
Canada .....	2	Missouri .....	4
Canal Zone .....	1	New Hampshire .....	2
Central America .....	1	New Jersey .....	212
China .....	1	New York .....	271
Colorado .....	1	North Carolina .....	372
Connecticut .....	46	Ohio .....	42
Cuba .....	8	Oklahoma .....	1
Delaware .....	20	Pennsylvania .....	208
District of Columbia .....	30	Philippine Islands .....	1
England .....	1	Porto Rico .....	2
Florida .....	43	Rhode Island .....	4
Georgia .....	40	South Carolina .....	29
Illinois .....	21	Tennessee .....	24
Indiana .....	11	Texas .....	3
Iowa .....	1	Turkey .....	1
Japan .....	2	Vermont .....	6
Kansas .....	1	Virginia .....	56
Kentucky .....	22	West Virginia .....	37
Korea .....	1	Wisconsin .....	1
Louisiana .....	1		
Maine .....	4	<i>Total</i> .....	1,664
Maryland .....	50		

TABLE IV  
RELIGIOUS DISTRIBUTION—UNDERGRADUATE MEN OF TRINITY COLLEGE  
1936-37

Baptist .....	135	Moravian .....	3
Catholic .....	134	None .....	43
Christian .....	20	None Given .....	35
Christian Scientist .....	24	Plymouth Brethren .....	1
Church of Christ .....	5	Presbyterian .....	299
Church of God .....	1	Quaker .....	5
Community .....	3	Reformed .....	16
Congregational .....	55	Seventh Day Adventist .....	2
Dutch Reformed .....	12	Unionist .....	3
Episcopal .....	221	Unitarian .....	6
Evangelical .....	3	United Brethren .....	3
Greek Orthodox .....	1	Universalist .....	1
Hebrew .....	45		
Lutheran .....	87	<i>Total</i> .....	1,664
Methodist .....	501		

The following tables from the Recorder's Office show the enrollment by classes, the average of grades and quality-points for all classes, and a comparison of the averages of fraternity and non-fraternity men in Trinity College. In this connection I desire to express my appreciation for the faithful and efficient work of our Recorders, Mrs. Annie Louise Pickett and Miss Margaret L. Coleman.

TABLE V  
ENROLLMENT BY CLASSES  
1936-37

Seniors .....	277*
Juniors .....	330
Sophomores .....	401
Freshmen .....	492
Advanced Freshmen .....	188
Special Students .....	14
<i>Total</i> .....	1,702

TABLE VI  
A STUDY OF THE DISTRIBUTION OF GRADES AND QUALITY-POINTS  
UNDERGRADUATE MEN OF TRINITY COLLEGE

A FRESHMAN CLASS FALL SEMESTER—1936-37		
<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	147	6.37
B .....	491	21.27
C .....	985	42.68
D .....	381	16.51
F .....	264	11.44
Incompletes 9 }	40	1.73
Absent .... 6 }		
Dropped .. 25 }		
	2,308	100.00

\* Thirty-eight of these completed their work in the preceding summer quarter but received the degree with this class.

## QUALITY-POINTS

A .....	1,323	Average per student .....	14.10
B .....	2,946	(five courses)	
C .....	2,955	Average per course .....	2.82
		(three hours)	
	<u>7,224</u>	Average per hour .....	.94
Less F .....	792		
	<u>6,432</u>		

Percentage passing grades ..... 86.83

Percentage failing grades ..... 11.44

Percentage Incompletes, Absent from Examination,  
and Dropped ..... 1.73

## B

ADVANCED FRESHMAN CLASS  
FALL SEMESTER—1936-37

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	12	1.43
B .....	69	8.20
C .....	318	37.81
D .....	248	29.49
F .....	175	20.81
Incompletes 4)		
Absent .... 7)	19	2.26
Dropped .. 8)		
	<u>841</u>	<u>100.00</u>

## QUALITY-POINTS

A .....	108	Average per student .....	5.85
B .....	414	(five courses)	
C .....	954	Average per course .....	1.17
		(three hours)	
	<u>1,476</u>	Average per hour .....	.39
Less F .....	525		
	<u>951</u>		

Percentage passing grades ..... 76.93

Percentage failing grades ..... 20.81

Percentage Incompletes, Absent from Examination,  
and Dropped ..... 2.26

C  
SOPHOMORE CLASS  
FALL SEMESTER—1936-37

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	132	6.62
B .....	475	23.81
C .....	883	44.26
D .....	364	18.25
F .....	112	5.61
Incompletes 14 } .....	29	1.45
Absent .... 8 }		
Dropped .. 7 }		
	1,995	100.00

QUALITY-POINTS

A .....	1,188	Average per student .....	16.20
B .....	2,850	(five courses)	
C .....	2,649	Average per course .....	3.24
		(three hours)	
	6,687	Average per hour .....	1.08
Less F .....	336		
	6,351		

Percentage passing grades .....	92.94
Percentage failing grades .....	5.61
Percentage Incompletes, Absent from Examination, and Dropped .....	1.45

D  
JUNIOR CLASS  
FALL SEMESTER—1936-37

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	156	9.33
B .....	475	28.41
C .....	719	43.00
D .....	227	13.57
F .....	73	4.37
Incompletes 12 } .....	22	1.32
Absent .... 5 }		
Dropped .. 5 }		
	1,672	100.00

QUALITY-POINTS

A .....	1,404	Average per student .....	18.75
B .....	2,850	(five courses)	
C .....	2,157	Average per course .....	3.75
		(three hours)	
	6,411	Average per hour .....	1.25
Less F .....	219		
	6,192		

Percentage passing grades .....	94.31
Percentage failing grades .....	4.37
Percentage Incompletes, Absent from Examination, and Dropped .....	1.32

E		
SENIOR CLASS		
FALL SEMESTER—1936-37		
Grade	Number	Percentage
A .....	149	9.14
B .....	446	27.35
C .....	915	56.10
D .....	79	4.84
F .....	15	.92
Incompletes 17	27	1.65
Absent .... 5		
Dropped .. 5		
	1,631	100.00

## QUALITY-POINTS

A .....	1,341	Average per student .....	20.85
B .....	2,676	(five courses)	
C .....	2,745	Average per course .....	4.17
		(three hours)	
	6,762	Average per hour .....	1.39
Less F .....	45		
Percentage passing grades .....			97.43
Percentage failing grades .....			.92
Percentage Incompletes, Absent from Examination, and Dropped .....			1.65

## F

A STUDY OF THE DISTRIBUTION OF GRADES AND QUALITY-POINTS  
UNDERGRADUATE MEN OF TRINITY COLLEGE  
FALL SEMESTER—1936-37

Grade	Number	Percentage
A .....	596	7.06
B .....	1,956	23.16
C .....	3,820	45.22
D .....	1,299	15.38
F .....	639	7.56
Incompletes 56	137	1.62
Absent .... 31		
Dropped .. 50		
	8,447	100.00

## QUALITY-POINTS

A .....	5,364	Average per student .....	16.05
B .....	11,736	(five courses)	
C .....	11,460	Average per course .....	3.21
		(three hours)	
	28,560	Average per hour .....	1.07
Less F .....	1,917		
	26,643		
Percentage passing grades .....			90.82
Percentage failing grades .....			7.56
Percentage Incompletes, Absent from Examination, and Dropped .....			1.62

TABLE VII  
A STUDY OF THE DISTRIBUTION OF GRADES AND QUALITY-POINTS  
UNDERGRADUATE MEN OF TRINITY COLLEGE

## A

FRESHMAN CLASS  
SPRING SEMESTER—1936-37

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	148	6.62
B .....	481	21.52
C .....	1,024	45.82
D .....	412	18.44
F .....	146	6.53
Incompletes 5)	24	1.07
Absent .... 4)		
Dropped .. 15)		
	<u>2,235</u>	<u>100.00</u>

## QUALITY-POINTS

A .....	1,332	Average per student .....	15.45
B .....	2,886	(five courses)	
C .....	<u>3,072</u>	Average per course .....	3.09
	7,290	(three hours)	
Less F .....	<u>438</u>	Average per hour .....	1.03
	6,852		

Percentage passing grades .....	92.40
Percentage failing grades .....	6.53
Percentage Incompletes, Absent from Examination, and Dropped .....	1.07

## B

ADVANCED FRESHMAN CLASS  
SPRING SEMESTER—1936-37

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	2	0.46
B .....	29	6.62
C .....	167	38.13
D .....	141	32.19
F .....	82	18.72
Incompletes 5)	17	3.88
Absent .... 0)		
Dropped .. 12)		
	<u>438</u>	<u>100.00</u>

## QUALITY-POINTS

A .....	18	Average per student .....	5.25
B .....	174	(five courses)	
C .....	<u>501</u>	Average per course .....	1.05
	693	(three hours)	
Less F .....	<u>246</u>	Average per hour .....	.35
	447		

Percentage passing grades .....	77.40
Percentage failing grades .....	18.72
Percentage Incompletes, Absent from Examination, and Dropped .....	3.88



## C

SOPHOMORE YEAR  
SPRING SEMESTER—1936-37

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	154	9.46
B .....	443	27.21
C .....	696	42.75
D .....	232	14.25
F .....	76	4.67
Incompletes 11)		
Absent .... 14)	27	1.66
Dropped .. 2)		
	<hr/> 1,682	<hr/> 100.00

## QUALITY-POINTS

A .....	1,386	Average per student .....	18.45
B .....	2,658	(five courses)	
C .....	2,088	Average per course .....	3.69
		(three hours)	
	6,132	Average per hour .....	1.23
Less F .....	228		
	<hr/> 5,904		

Percentage passing grades ..... 93.67

Percentage failing grades ..... 4.67

Percentage Incompletes, Absent from Examination,  
and Dropped ..... 1.66

## D

JUNIOR CLASS  
SPRING SEMESTER—1936-37

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	164	8.76
B .....	561	29.95
C .....	791	42.23
D .....	247	13.19
F .....	81	4.32
Incompletes 15)		
Absent .... 10)	29	1.55
Dropped .. 4)		
	<hr/> 1,873	<hr/> 100.00

## QUALITY-POINTS

A .....	1,476	Average per student .....	18.90
B .....	3,366	(five courses)	
C .....	2,373	Average per course .....	3.78
		(three hours)	
	7,215	Average per hour .....	1.26
Less F .....	243		
	<hr/> 6,972		

Percentage passing grades ..... 94.13

Percentage failing grades ..... 4.32

Percentage Incompletes, Absent from Examination,  
and Dropped ..... 1.55

E  
SENIOR CLASS  
SPRING SEMESTER—1936-37

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	174	11.81
B .....	564	38.26
C .....	570	38.67
D .....	118	8.00
F .....	23	1.56
Incompletes 13 } Absent .... 5 } Dropped .. 7 }	25	1.70
	<hr/> 1,474	<hr/> 100.00

QUALITY-POINTS

A .....	1,566	Average per student .....	22.80
B .....	3,384	(five courses)	
C .....	1,710	Average per course .....	4.56
	<hr/> 6,660	(three hours)	
Less F .....	69	Average per hour .....	1.52
	<hr/> 6,591		
Percentage passing grades .....			96.74
Percentage failing grades .....			1.56
Percentage Incompletes, Absent from Examination, and Dropped .....			1.70

F

A STUDY OF THE DISTRIBUTION OF GRADES AND QUALITY-POINTS  
UNDERGRADUATE MEN OF TRINITY COLLEGE  
SPRING SEMESTER—1936-37

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	642	8.39
B .....	2,078	27.17
C .....	3,248	42.47
D .....	1,150	15.04
F .....	408	5.34
Incompletes 49 } Absent .... 33 } Dropped .. 40 }	122	1.59
	<hr/> 7,648	<hr/> 100.00

QUALITY-POINTS

A .....	5,778	Average per student .....	17.85
B .....	12,468	(five courses)	
C .....	9,744	Average per course .....	3.57
	<hr/> 27,990	(three hours)	
Less F .....	1,224	Average per hour .....	1.19
	<hr/> 26,766		
Percentage passing grades .....			93.07
Percentage failing grades .....			5.34
Percentage Incompletes, Absent from Examination, and Dropped .....			1.59

A STUDY OF THE DISTRIBUTION OF GRADES AND QUALITY-POINTS  
UNDERGRADUATE MEN OF TRINITY COLLEGE  
YEAR—1936-37

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	1,238	7.69
B .....	4,034	25.06
C .....	7,068	43.91
D .....	2,449	15.22
F .....	1,047	6.51
Incompletes 105 } .....	259	1.61
Absent .... 64 }		
Dropped .. 90 }		
	16,095	100.00

QUALITY-POINTS

A .....	11,142	Average per student .....	16.80
B .....	24,204	(five courses)	
C .....	21,204	Average per course .....	3.36
	56,550	(three hours)	
Less F, .....	3,141	Average per hour .....	1.12
	53,409		
Percentage passing grades .....		91.88	
Percentage failing grades .....		6.51	
Percentage Incompletes, Absent from Examination, and Dropped .....		1.61	

TABLE VIII  
FRATERNITY AVERAGES  
YEAR—1936-37

FALL SEMESTER

Fraternity Average .....	1.183
Non-Fraternity Average .....	.953
All Men's Average .....	1.024

SPRING SEMESTER

Fraternity Average .....	1.252
Non-Fraternity Average .....	1.079
All Men's Average .....	1.156

SUMMARY FOR THE YEAR

Fraternity Average .....	1.224
Non-Fraternity Average .....	1.008
All Men's Average .....	1.089

STUDENT HEALTH

A brief report from Dr. J. A. Speed, Director of Student Health, is given below. The efficient care of students needing medical attention and the excellent facilities for this care cause me again to express our gratitude for the services of the Student Health Office and the Hospital Staff.

TABLE I  
MEN'S STUDENT HEALTH DEPARTMENT  
COMPLETE REPORT OF AMBULATORY AND BED CASES AND SPECIAL  
CONSULTATIONS IN DUKE UNIVERSITY HOSPITAL  
YEAR 1936-37

<i>Month</i>	<i>Ambulatory Cases</i>	<i>Bed Cases</i>	<i>Consultations</i>
September.....	1,361	24	98
October.....	1,717	40	132
November.....	2,330	43	195
December.....	907	38	131
January.....	2,418	56	177
February.....	2,404	61	145
March.....	2,723	68	159
April.....	2,220	19	101
May.....	1,708	27	109
<i>Total.....</i>	17,788	376	1,247

TABLE II  
THE WOMAN'S COLLEGE  
COMPLETE REPORT OF AMBULATORY AND BED CASES AND SPECIAL  
CONSULTATIONS IN DUKE UNIVERSITY HOSPITAL  
YEAR 1936-37

<i>Month</i>	<i>Ambulatory Cases</i>	<i>Bed Cases</i>	<i>Consultations</i>
September.....	1,013	68	64
October.....	1,914	216	74
November.....	1,597	203	72
December.....	909	179	34
January.....	1,329	205	51
February.....	1,548	278	74
March.....	1,365	294	43
April.....	1,390	189	45
May.....	1,617	239	45
<i>Total.....</i>	12,682	1,871	502

#### PERSONAL WORK

The need for effective work of an informal, personal nature and of sufficiently broad scope to reach as nearly as possible the student's entire campus life has been emphasized in previous reports. To attain a measure of success in this work we have held numerous conferences with individual students on the selection of courses, scholarship, health, conduct, and many other problems. Those of us working directly and indirectly through this office have sought to aid students in scholastic attainment and in cultivating the basic qualities of well-balanced living.

The difficulty of measuring the results of much of our counseling on general matters is obvious, but I am convinced that it is essential to continue expanding it in amount and scope.

The organization and plan of work with extracurricular activities outlined in previous reports is being followed. During the year a reorganization of the Pan-Hellenic Council, emphasizing an enlarged program of more meaningful activity, was effected. The work of the Student Committee of the Social Activities Committee is to be commended. In brief, although little in the way of new projects was attempted by organized extracurricular groups, including musical organizations, the Y. M. C. A., publications and others, I feel that noted progress was made during the year.

The appointment to our Staff of Mr. Merrimon Cuninggim as Director of Religious Activities gave us an addition for which we have felt a clear need. To assist the Y. M. C. A., Sunday Morning Discussion Group, the Undergraduate Ministerial Association, the denominational groups, and other similar groups in integrating and making more effective their efforts in promoting the moral and religious life of the community has been his aim. He and those who have assisted him have striven to lay plans for an organization for the effective co-operation of all groups that each may serve more efficiently in its sphere. It is hoped that the work attempted by the Committee appointed a few years ago for co-operation with the churches of the city may be enlarged.

H. J. HERRING, *Dean of Men.*

#### THE FRESHMEN

In its policies this office continues to be guided by the fundamental principles first outlined in the report for the year 1934-35. The validity of the objectives and opinions expressed in that report has become increasingly apparent. Self-discipline and the assumption by the individual student of personal responsibility in matters of conduct constitute the most decisive single factor in the development of sound character; the close correlation between behavior in this sense and intellectual achievement is sufficient to explain the preoccupation of this office in matters pertaining to student conduct.

Under the close scrutiny and careful selection of the Committee on Admissions the quality of the first-year men has shown steady improvement. In the American Research Council Test the Freshman Class ranks consistently above the median for the United States. The potential ability of the great bulk of these first-year men cannot be questioned; the real problem is how to induce them to utilize the capabilities which they undoubtedly possess. In working toward a solution of that problem we believe the effectiveness of the Instructional Staff of Trinity College may be augmented by wise administration of the affairs of this office.

It is with this in view that the co-operation of the Instructional Staff is sought in matters touching the welfare of Freshmen. The opinion of

the instructor is obtained before a student is advised to secure the help of a tutor, or is permitted to drop a course. Pertinent information concerning such matters as placement scores, physical handicaps, emotional disturbances, or significant factors in background or training is placed in the hands of individual instructors. Comments on grade reports are given careful consideration. The practice is becoming common for instructors to turn in the preliminary and mid-semester reports in person, utilizing the opportunity for an exchange of opinion on students who for any reason constitute a problem. The Freshman Council has been particularly valuable in promoting co-operation between the Freshman Dean's Office and the various departments.

The Masters in charge of Freshman houses continue to constitute an essential link in the execution of measures desired by this office of administration and to furnish a type of personnel work of great value along lines indicated in the opening paragraph of this report. Under the efficient chairmanship of Dr. Marcus Hobbs, Masters have met regularly to discuss problems, to formulate policies, and to devise procedures by which these policies might be translated into action. Grades and other pertinent information are furnished them and letters from and conferences with parents are of frequent occurrence. Selected on the basis of sound character, excellent scholarship, and ability to handle men, the Masters have rendered invaluable service.

The work of Dr. E. V. Pullias deserves special mention. He has continued his work with the eighty students who by their high-school records and by their placement tests indicated that they would encounter difficulty in adjusting themselves to college work. By a careful study of the history, work habits, and personality traits of each of these men, Dr. Pullias has been able to assist them markedly by work done during the regular class hours of Education 1 and by personal conferences. Numerous special problems requiring extensive treatment were handled. Special correspondence with parents to clarify the particular problems of their sons constituted a regular phase of this work.

In addition to his work with this type of student, Dr. Pullias was available for consultations by men who though apt academically were disturbed by personal problems growing out of long established habits and attitudes. Cases were referred to him through the Freshman Office as they originated from the observation of the Dean or from the suggestion of House Masters. A score or more students sought his assistance without the express suggestion of the Staff. Close co-operation was maintained between Dr. Pullias and the Freshman Office; and where action was necessary none was suggested or undertaken without the prior advice and consent of the Dean.

By his professional training, common-sense point of view, and patience, Dr. Pullias has rendered constructive service among a large group of students who needed a special type of personal, individual attention. At the same time, he satisfied the growing demand for vocational guidance, a demand springing as much from anxious parents as from per-



plexed students. The assistance which he has given along the lines suggested has enabled this office to devote additional time to other phases of its work.

The close connection between this office and the Pan-Hellenic Council and the officers of individual fraternities has continued to the mutual advantage of the fraternity and the Freshmen. The response of the Y. M. C. A. to requests for co-operation and assistance has been excellent. And considerable attention is still given to the general social life of the campus.

ALAN K. MANCHESTER, *Dean of Freshmen.*

## THE WOMAN'S COLLEGE

### *To the President of the University:*

As Dean of the Woman's College, I have the honor to submit my report for the year 1936-37. It is taken largely from more detailed reports made to me by Miss Julia Grout, Director of Physical Education; Miss Louise Seabolt, Recorder; Miss Elizabeth Anderson, Assistant Dean in Charge of Freshmen and Secretary of the Council on Admissions; and Mrs. Hazen Smith, Associate Dean of Undergraduate Instruction, who is also Adviser to the Y. W. C. A.

In some ways this year was the best we have had since the opening of the College in 1930. The enrollment was somewhat larger than last year. The number of women registered was 1,015, an increase of 54 over 1935-36, of whom 846 were enrolled in the Woman's College.

#### SUMMARY OF THE REGISTRATION OF WOMEN STUDENTS

<i>Woman's College</i> .....		846
Seniors .....	173	
Juniors .....	203	
Sophomores .....	206	
Freshmen (including Advanced Freshmen) .....	237	
Specials .....	23	
Auditors .....	3	
<i>Graduate School</i> .....		59
<i>Hospital Division</i> .....		93
Student Nurses .....	81	
Technicians .....	8	
Dietitians .....	4	
<i>School of Law</i> .....		9
<i>School of Medicine</i> .....		8
<i>Total Enrollment</i> .....		1,015

The regional distribution changed slightly, the South having a percentage of 57.55 as compared with 58 in 1935-36, the North a percentage of 35.25 as compared with 36, while the percentage from the West increased from 5.7 in 1935-36 to 6.6 in 1936-37. North Carolina had a percentage of 28 as compared with 28.5 in 1935-36.

#### TABULATION SHOWING REGIONAL DISTRIBUTION OF UNDERGRADUATE WOMEN FOR THE YEAR 1936-37

Alabama .....	8	Louisiana .....	4
Arkansas .....	3	Maine .....	7
Connecticut .....	15	Maryland .....	28
Delaware .....	7	Massachusetts .....	10
District of Columbia .....	17	Michigan .....	8
Florida .....	47	Minnesota .....	2
Georgia .....	31	Mississippi .....	7
Illinois .....	16	Missouri .....	1
Indiana .....	3	New Hampshire .....	2
Kentucky .....	10	New Jersey .....	83

New Mexico .....	1	Tennessee .....	16
New York .....	84	Texas .....	1
North Carolina .....	237	Virginia .....	42
Ohio .....	23	West Virginia .....	27
Oklahoma .....	3	Wisconsin .....	3
Pennsylvania .....	87	Foreign Countries and U. S.	
South Carolina .....	8	Dependencies .....	5
<i>Total Enrollment</i> .....			846

The enrollment of new students shows slight but interesting differences, as compared with the total enrollment. Although we had many more applicants than in the preceding year, the number accepted dropped from 307 to 291. Of this number, 59.1+ per cent came from the South, 28.52 per cent from North Carolina, 31.5+ per cent from the North, and 7.9+ per cent from the West.

The religious affiliation of the undergraduate women was as follows:

Baptist .....	66	Lutheran .....	36
Catholic .....	29	Methodist .....	238
Christian .....	7	Moravian .....	2
Christian Science .....	12	Presbyterian .....	168
Community .....	4	Reformed .....	11
Congregational .....	27	Unitarian .....	3
Episcopal .....	126	United Brethren .....	3
Friends (Quaker) .....	3	No Church Affiliation .....	80
Hebrew .....	16	No Data .....	14
Latter Day Saints .....	1		
<i>Total</i> .....			846

For some years the Recorder has made a study of the number of women dropping out during the year, exclusive of Seniors, and of the reasons for their withdrawal. From September, 1936, to September, 1937, 17½ per cent from all classes withdrew, not including Seniors, auditors, special students, the three who transferred to other Colleges of the University, or the five who are taking their Junior year abroad. Of these 112 students, only 9 were Juniors and none Seniors. The withdrawals are therefore confined almost entirely to the Freshman and Sophomore classes.

It is not easy to determine the real causes of withdrawal. They are often complicated, but the great majority are due to unsatisfactory scholarship or to varying degrees of social maladjustment which may be combined with poor work, ill health, home or financial difficulties, etc. Of the 112, 32 transferred to other liberal arts colleges, 14 to business and professional schools, 9 were dropped for failure in work, 9 left for financial reasons, and 4 left to be married. Of the remainder, 21 are known to have withdrawn because of unsatisfactory work, but it was undoubtedly a contributory factor in other cases as well. Of the 112, 56 were making a "C" average.

On the whole the academic work showed improvement. The general average was .29 higher for quality-points earned and .03 for semester-hours passed. Eighty-six women made the Dean's List in the first semester, 139 in the second semester. Two honorary Freshman scholarships were won by women, and one such scholarship was divided between two

Juniors. Twenty-four women made class honors, and 25 were elected to Phi Beta Kappa. Two Seniors were awarded degrees *summa cum laude* and 6 *magna cum laude*; three completed Departmental Honors in English and one in History.

In some respects the record was not so good. Although the median for the psychological test given to Freshmen was 210 for the women, 5 higher than in 1935, yet the grades of the Freshmen showed 1.66 less quality-points earned per student. The Juniors also had a lower record than the year before and, as always, the record of the so-called Advanced Freshmen, who should rather be termed Retarded Sophomores, was conspicuously poor. Only the better records of the Sophomores and Seniors availed to raise the general standard.

CLASS YEARLY AVERAGE 1936-37

Class	<i>Q.Pts. Earned Per S.H. Carried</i>	<i>Q.Pts. Earned Per Per Student</i>	<i>S.H. Carried Per Student</i>	<i>S.H. Passed Per Student</i>	<i>S.H. Failed Per Student</i>
Senior.....	1.783	26.85	15.06	14.99	.07
Junior.....	1.541	23.92	15.52	15.26	.26
Sophomore.....	1.467	22.07	15.30	15.04	.26
Advanced					
Freshmen.....	.375	4.91	13.12	11.	2.12
Freshmen.....	1.234	18.83	15.25	14.65	.60
All Students (Except Special Students).....	1.454	22.40	15.41	15.04	.37
All Students (With Special Students).....	1.442	21.91	15.19	14.81	.38

Of several studies made in the Woman's College, two seem of special interest in this connection. In the fall of 1933-34 Dean Smith chose the 26 Freshmen who made the lowest grades in the work of the first semester and has followed them through the four years. Of this group, 10 had ranked in the upper third of their high-school class, 13 in the middle third, 1 in the lower third, and 2 had no class rating. They were representative of the class in geographical distribution and type of school attended. In subjects studied they were also representative, except for the fact that 21 had courses in Education either one or both semesters. Of these 26 girls, none had Sophomore standing at the end of the year, although 3 made a "C" average the second semester. Two failed to make enough hours to be allowed to return, and 10 others dropped out during the Freshman or Sophomore years. Only 7 of the 14 remaining returned for the Junior year, but none of those had Senior standing at the end of that year. However, all 7 returned and 5 graduated, 3 of whom had taken summer school work. These 26 students had scores in the Freshman psychological test ranging from 72 to 219 with a median of 130, while the class median was 171. The 5 who graduated had scores ranging

from 130 to 219, with a median of 178, and all 5 had been rated in the upper third of their class by high-school principals. Of this group only 19 per cent graduated, as compared with 54 per cent of the rest of that class.

The second study was made by Miss Anderson, Assistant Dean in Charge of Freshmen. She studied the Freshmen of 1936-37 in relation to their high-school rating, their psychological scores, their academic success, and their geographical distribution. Of the class of 220, only 38 had been ranked lower than the upper third by their high-school principals. Of these 38, only 7 scored as high as the median in the psychological test. While only 22 per cent of the class as a whole failed to make Sophomore standing, 48 per cent of this group failed to make a "C" average. The students who made the lowest scores in the psychological test were given every possible help by Dean Anderson, the heads of their houses, the Freshman Advisers, and especially by Mr. Watson of the Department of Education. However, 2 left before the end of the first semester, when failing 4 courses, 2 were dropped for failure, 2 were advised not to return because of the poor quality of their work, and 4 others failed to return because of discouragement over their work. Only 8 of this group made a "C" average for the year. Of the 49 Freshmen, 22 per cent of the entire class, who failed to make Sophomore standing, 20 or 40+ per cent had dropped out of the College at the end of the year.

From these studies there would seem a definite and significant correlation between high-school rating, scores on the psychological test, college work especially during the Freshman year, and withdrawal from the College. In addition, there is a close connection between these and various problems of maladjustment which are associated with failure and discouragement.

Another aspect of Dean Anderson's report seems especially significant. Of the 31 Freshman girls of 1936-37 who made the lowest scores in the psychological test, 80 per cent were from the South and nearly 50 per cent from North Carolina. It would be well to continue this study for some years, both for the help it may give to the Council on Admissions and the light it may throw on the quality of the work in Southern schools.

Of the better students in the Freshman Class, 12 per cent made a "B" average in the first semester, 15 per cent in the second semester, and 78 per cent made a "C" average or better for the year. Five girls made Freshman Honors at Commencement. That the girls were interested in scholarship and in means of stimulating it among the Freshmen is shown by their organization of a new honorary Freshman society, planned and carried through by themselves, which they have called Ivy, election to which depends upon a high quality of academic work. They have been asked to join the national honorary Greek letter sorority but thus far have preferred to keep it a local group.

No great change was made in the method of choosing students, although the large number of applicants made necessary a most careful selection. Believing that interviews with prospective students and their parents were especially desirable, the Council on Admissions arranged for



as many as possible. Many applicants came to the University, many others were seen by Dean Anderson and Dean Baldwin in Washington, Philadelphia, and New York, and special arrangements were made with interested and able alumnae in different states to interview applicants from those sections. Certain changes in the amount and time of payment of room reservation fees were recommended and adopted for the year 1937-38 for the purpose of eliminating as far as possible those applicants who are merely "shopping around," as it were, and often withdraw after acceptance.

The work of the Y. W. C. A. was in many ways unusually good. Each committee functioned well. The Worship Committee arranged frequent Assembly programs and special meetings. The "Y" sent representatives to many religious conferences, and eleven members attended the Y. M.-Y. W. C. A. Conference at Blue Ridge. As heretofore, the Social Service Committee had the largest membership. More than 150 girls engaged in its numerous activities. A class in Social Case Work was taught by Mrs. Florine Ellis, and the group then divided into six sub-committees, some helping girls' clubs in the city schools, some working with the Legal Aid Clinic, some giving programs and refreshments in various city institutions, some helping in the Out-Patient Clinic and Children's Ward of the Duke Hospital, some in the Wright Refuge, and some providing Thanksgiving baskets and Christmas stockings for the needy of Durham.

This year the Sophomore Commission undertook two new and successful projects, the editing and mimeographing of the *Weekly Post*, a sheet of announcements distributed at assembly each Thursday, and the writing and publication of a clever little pamphlet of college news and pictures, called *It's Not in the Catalogue*, which was sent to prospective students.

Feeling that an appropriate room would be of real help to the "Y" work, the Y. W. C. A., with the help of the College, put a new floor in the old Hesperian Society room in East Duke and equipped it with Venetian blinds, new draperies, and chairs, so that it now offers a suitable and attractive room for the "Y" meetings. The Dean still looks forward to the day when the College will have a little chapel of its own, which by its beauty will call the students to reverent worship.

The year has seen a decided change for the better in the living conditions of the graduate women. Several apartments in the Faculty Apartments were reserved for them, a living-room was furnished where they could entertain their friends, and Miss Williford, who received her Ph.D. in History from Duke, was appointed as their special hostess and adviser. Such regulations as were necessary for a pleasant group life were made by a committee of their own choosing. On the whole, the plan worked satisfactorily, although the separation of the entire group, some in Aycock, some in the apartment house, and some in homes in town did not make for as many friendly contacts among all the graduate women and with the Faculty as are desirable. During the spring it was decided to place only undergraduates in Aycock, and to make the apartment house the center for graduate women on our campus.



A new plan, tried for the first time in 1936-37, for bringing the undergraduate town women into closer relation with the College was most successful. The Freshman girls who live in town were the guests of the College during Freshman Week, lived in the dormitories, and shared in every activity. Afterwards, these girls and all town students were asked to affiliate themselves with the dormitory of their choice as associate members and to share in its doings. As a result, the town girls, always an important group, have come to feel more at home on the campus and the Town Girls' Club has taken on new life.

Two innovations were made in the Department of Physical Education. At the time of physical examinations in the fall, a swimming test was for the first time given to all Freshmen. Only 14 per cent failed to pass. Although no swimming requirement has been introduced, all who fail are urged to elect swimming for at least one term, and one-half did elect it during the first term. During the winter term a course in Body Mechanics which was substituted for the Freshman requirement in Danish gymnastics met the hearty approval of the Freshmen. The aim of the course, says the Director, is to give a better understanding of the meaning and values of good posture, to teach the fundamentals of rhythm and more efficient means of handling the body in everyday activities, and to give practice in the elements of skills needed for sports, as well as to give instruction in various personal health problems.

A Riding Club was organized by the students for those who could pass the required tests. A two-hole golf course was made on the campus and instruction given by Miss Morris and Mr. Hagler. For riding and advanced golf lessons a moderate fee was charged.

Improvements were made in the dressing-room facilities, and the indoor recreational equipment was increased. With these changes it was possible to open the swimming pool at certain times to the engineers, the Faculty, and the daughters of Faculty and Staff. In addition, the gymnasium was opened once a week for a month to thirty Girl Scouts who were instructed in folk dancing by the class in Recreational Leadership and by Miss Grout.

It has been a satisfaction to the Dean and the College to watch the growth of this department and the keen interest of its Faculty in their work. During the summer Mrs. Bookhout studied at the Pocono Hockey Camp, Miss Lewis attended the summer session of the Bennington School for the Dance, and Miss Grout was one of a few chosen Americans to take the Swedish-American Course in Physical Education at Sigtuna, Sweden.

Certainly greatly needed improvements were made in the Auditorium and dormitories and plans projected for others as soon as financially practicable. One of the improvements most appreciated by the girls was the refurnishing of Brown House living-rooms under the direction of Mrs. Frederic M. Hanes, who generously gave her interest, knowledge, and fine appreciation of the beautiful to the College to show what can be done with limited funds. The rooms have been made far more beautiful and livable than before, and the students, both men and women, are keenly

appreciative of the attractive rooms and of Mrs. Hanes's gifts of lamps, reproductions of pictures by Degas, Metcalf, Van Gogh, and Sully, and an original water color by Lintott. These rooms were so successful that the College redecorated the living-rooms of Giles and plans to refurnish those of the other dormitories as soon as practicable.

At last the long-planned remodelling of Jarvis is under way. During the summer of 1937 one-half of the building was entirely remodelled inside, leaving the outside just as it has been. This was done with remarkable skill and success, and the new living-room, the modern bath-rooms, the attractive bedrooms with their ample closets, the wide halls and stairway made that half of Jarvis one of the most desirable houses on the campus. We hope that the other half of Jarvis may be completed as soon as possible and Aycock also remodelled along the same lines. During the summer all the rooms in Aycock and the older half of Jarvis were repainted, and furniture like that in the newer buildings provided where necessary. All discontent and feeling of discrimination in the matter of rooms have vanished.

The projects of the students themselves deserve special emphasis, it seems to me, not always because of their importance in themselves but because of the spirit with which they were taken and the methods by which they were carried out and which have been happily developed during the last four or five years. I know of no one thing which has been of more vital significance in the life of the College than this.

Students who wish to initiate some improvement usually discuss their ideas with Dean Wilson or the special adviser of their group. They then carry the suggestion to Mr. Tyree, Director in the Business Division, who discusses with them the feasibility and probable cost of their plan. If approved, he and they and frequently some member of the Staff or Faculty, specially fitted to help them and whose advice the students desire, work together to put the thing through. The initiative, the working out of many details, often the raising of all or a part of the cost are left to the students, but the Business Office helps them with the necessary business detail, often defrays a part of the expenses, and co-operates in every way possible. In all such plans a requirement of the Business Office is that any suggestion, before adopted, must have the approval of the experts in that field, architect, engineer, landscape gardener, etc. This way of working in co-operation has been, for several years, remarkably successful. The girls not only have the satisfaction of presenting directly what they feel is needed and working hand in hand with the Administration to put it through, but also have an opportunity to learn business methods and to use their own business ability which is often surprisingly good. Students and officers of the College who have worked together on such projects are drawn closer together in personal friendship and in devotion to the College.

Among many such projects completed or begun in 1936-37 are the following: the furnishing of the Woman's Athletic Association lounge in the gymnasium, the furnishing of rooms for the White Duchy, the Presidents' Club, the Town Girls' Club, the Y. W. C. A., and the Music Study

Club. The booklet, *It's Not in the Catalogue*, already mentioned, was published by the Sophomore Commission, and a handbook telling of the various athletic activities was published for distribution to new students by the Woman's Athletic Association; additional furniture for their social rooms and books for their libraries were bought by the dormitories, additional furniture and game equipment for the Ark by the Sandals; a large stone bench was placed in the circle between East and West Duke by the Senior Class; the Woman's College Forum began a garden to furnish flowers for the dormitories. The Social Standards Committee, working with an expert interior decorator, developed a plan for refurbishing the Union Lobby and has already made it a more home-like place. The refurbishing and redecorating has been so warmly approved by all the students that Dean Wilson reports a new interest all over the campus in interior decoration.

One project bids fair to become a cherished tradition. During the summer school sessions Dean Wilson, with the help of many students, has for several years held Community Sings out of doors on Sunday evenings. She and some of the students on both campuses conceived the idea of having such a sing in the Woman's College Auditorium. The plan caught the interest of the students and has grown in popularity until now the Auditorium is filled every Sunday night. Though Miss Wilson's support continues and is invaluable, this is run largely by the students themselves and has given an astonishingly large number of students opportunity to share in the programs. All kinds of hidden talent have been discovered. The programs vary greatly both in kind and quality, but each Sunday night, singly, in couples, and in groups, the men and women turn towards the Auditorium for the "Sunday Sing." Material had to be provided for making slides and for a projector, but here the College co-operated and gradually a large collection of favorite songs and hymns, some written by the students themselves, have been gathered together, some of which may serve as a nucleus for a Duke song book in some future day.

Panhellenic continued its scholarship of \$100.00 to the Senior making the best record during the last year and a half before graduation. This year the scholarship was awarded to Miss Helen Larzelere of Jacksonville, Florida. Realizing that some of the sororities were growing too large and following the recommendation of the National Panhellenic, the sororities themselves made a careful study of the local situation, and a quota system was adopted to begin in 1937-38. In order to extend dating privileges in the Panhellenic House and to handle the social problems of the House more efficiently, the sororities were fortunately able to secure Mrs. W. F. Franck as their hostess on dating nights.

Although we have so few accredited courses in music, there are many opportunities for stimulating and valuable extracurricular activity. In 1936-37 there were 150 girls in the Woman's Glee Club, 75 or more in the Chapel Choir, and 15 in the Woman's Orchestra, several of whom were sufficiently proficient to play in the University Symphony Orchestra. The Music Study Club not only sponsored the coming of Richard Crooks,

but also held monthly meetings at which the members gave excellent programs and to which they invited selected guests.

The training classes for the new officers in every organization were continued by the Presidents' Club, who again had the active assistance of Professor Bradway and other members of the Faculty. Indeed, in many of the students' activities they desire and receive valuable assistance from men and women of the Faculty and Staff.

These are only a few of the many ways in which initiative and leadership are being encouraged among the students. The Student Government Association and other organizations in their many activities offer an excellent opportunity for the development and exercise of these qualities. By limiting the number of offices a student may hold and to a slight extent the number of organizations to which she may belong, the Association is trying to spread these opportunities more and more widely while preventing a few students from being overburdened. To this the heads of the residence houses and the house committees are also lending all possible aid. There are still too many girls who for one reason or another do not have the chance they need, but the number is being somewhat lessened every year.

Possibly in this report undue emphasis seems to have been given to college activities. Throughout the year the Dean and her Staff, the Faculty, and many of the students were seriously concerned in raising the quality of the academic work and in creating in the dormitories and on the campus a vigorous and inspiring intellectual atmosphere. This is, in fact, the chief purpose of some of the student organizations, such as the Forum Committee, as well as that of certain clubs to which both men and women belong, such as the Young Writers' Club. But the College is also interested in democratic and co-operative living, in social responsibility, in aesthetic appreciation, and in spiritual apprehension. To these we believe that both classroom work and extracurricular activity contribute.

No report of the Woman's College could be complete without recognition of the work of the alumnae and of Miss Aldridge, the Alumnae Secretary. Every meeting of the Alumnae Council demonstrates the interest of the alumnae for they are always well attended, even if it means inconvenience and even real difficulty in some cases. The work done in connection with the University plates by Miss Aldridge, Mrs. Hillman, and others has been invaluable. At all times the Dean has found a vital interest and a ready willingness to help. Many of the younger alumnae, especially, return whenever possible and feel that the College and their dormitories are still home to them. As they go out to all parts of the country they are joining the Alumni Clubs and are forming smaller and more intimate groups of their own. Many of them are also working in the American Association of University Women. The Durham Alumnae Association has grown remarkably within the last year both in numbers and in the success of its undertakings. In every way possible the College should maintain its connection with the alumnae, should seek their aid, and should render them service.



The year brought grief to the College in the death of Dr. Mary Idolene McManus, who was a Doctor of Philosophy of the University and an able Instructor in Zoology, and in the retirement of Mrs. Hope Summerell Chamberlain, the beloved head of Pegram House since 1931. Her wide interests and fine mind, her quick wit and ripe wisdom, and her unusual understanding of their problems won her lasting friends among the students, both men and women, many of whom she helped and inspired.

Before closing this report, I should like to urge the expansion of the Department of Music and the provision for studio work in music and fine arts. A study should be made of the amount of credit to be allowed for such work, as well as of the desirability of integrating certain extra-curricular activities with the work of these and other allied departments.

Again may I urge the appointment of more women on the Faculty and not merely to instructorships. Those now here are giving gladly more time than they can afford to helping the students in many ways, but we need more help and they should have some time for their own research. Our students should have opportunity of friendship with women who are at the same time scholars and women of sympathy and understanding. With so few women on the Faculty, this is now possible to a very limited number.

ALICE M. BALDWIN,  
*Dean of the Woman's College.*

## THE GRADUATE SCHOOL OF ARTS AND SCIENCES

*To the President of the University:*

As Dean of the Graduate School of Arts and Sciences, I have the honor to submit my report for the academic year 1936-37.

The students in attendance on the Graduate School during the regular academic year 1936-37 were 229 in number. Adding 1,034 graduate students enrolled during the summer session of 1936, with all duplications eliminated, the total number of individuals in the Graduate School during the calendar year from Commencement, 1936, to Commencement, 1937, was 1,263. Those enrolled during the regular academic session of 1935-36 numbered 241, and there were 979 other individual graduates enrolled in the summer of 1935, making a total of 1,220 for the twelve-months period. For the calendar year ending at Commencement, 1937, there was thus a gain of 43.

Degrees were conferred in the Graduate School at the 1937 Commencement as follows: Doctor of Philosophy, 24; Master of Arts, 94; Master of Education, 35. The comparable figures for 1936 were: Doctor of Philosophy, 25; Master of Arts, 85; Master of Education, 27.

At the time of the establishment of the Graduate School few students were in attendance from states other than North Carolina. In the academic year 1936-37 thirty-five states and four foreign countries were represented. Out of a total of 229 students, 70 came from North Carolina. Other states represented by five or more students were as follows: South Carolina, 15; New York, 13; Virginia, 13; Massachusetts, 11; Pennsylvania, 11; Tennessee, 11; West Virginia, 9; Florida, 8; Mississippi, 7; New Jersey, 6; and Georgia, 5. The remaining 50 came from twenty-three states and Canada, China, Japan, and Germany.

During the year the Graduate Council, by committee and in regular sessions, made an extended study of the requirements for the Master's degree when earned by a program of study pursued in several summer school sessions. The total time required to complete the degree requirements was extended from thirty to thirty-three weeks. Regulations were adopted which aim to secure in each department a better balanced offering of courses, a summer program extending over several years, and supervisory services by members of the regular departmental staff.

During the year the University Administration found it possible to make a moderate increase in the amount allowed in the budget for fellowships, scholarships, and assistantships in the Graduate School. Consequently, many of these appointments for 1937-38 were made at increased stipends. One notable event of the year was the making of an agreement with the Brookings Institution of Washington, D. C., for the establishment of co-operative fellowships in economics and political science, supported equally by the Brookings Institution and Duke University. The first person appointed to one of these fellowships of the value



of one thousand dollars was Miss Edna R. Fluegel in political science. She will reside in Washington during the year 1937-38 and carry on research concerning certain governmental problems.

Attention is again called to the need of some endowed fellowships and scholarships for the purpose of aiding foreign students who desire to enter the Duke Graduate School. Every year promising applications are received from many foreign countries. Only occasionally has it been possible to make an award to one of these applicants out of funds provided by the annual University budget. Fellowships should also be established to which Duke graduate students may be appointed when it is necessary to go elsewhere in the United States or in foreign countries to gain access to material required for their research or to obtain instruction by the most distinguished specialists in their fields.

An account of the research activities of members of the University Faculty will be found in the report of the Council on Research, which annually apportions funds, provided in the University budget, as grants-in-aid of projects which are judged meritorious and worthy of financial assistance. Accompanying the President's report and appended to the report of the Council on Research, is a list of research publications by members of the University Faculty from July 1, 1936, to June 30, 1937.

In view of the approaching Centennial Celebration of the service rendered to Southern education by Trinity College and Duke University, it may be well to include in this report a sketch of the development of graduate instruction in Trinity College and of the progress made by the Duke Graduate School of Arts and Sciences up to the present time.

Trinity College was moved from its original home near High Point, North Carolina, to Durham, North Carolina, in September, 1892. While some persons received the A.M. degree at Old Trinity for a fifth year of college work or for pursuing a course of study and reading after graduation but while not in residence, little information is available regarding the character of the work done.

After the location of the College in Durham, the awarding of the Master of Arts degree for non-resident study was discontinued. After 1896 the A.M. degree was conferred on students for an additional year of resident graduate study after the Bachelor's degree had been received. Candidates for the Master's degree followed courses of instruction in one major and two minor studies. A number of men who have had important and influential careers received the degree of Master of Arts in the closing years of the nineties, but at that time there was no separate organization within Trinity College to promote and supervise graduate studies. The Dean of Trinity College conducted the necessary work of administration. The conferring of a few Master's degrees each year continued in this manner for a considerable length of time.

In September, 1916, the President of the University appointed a standing Committee on Graduate Instruction to deal with the problems involved in the promotion and administration of graduate work. In that year there were six graduate students in the College, and seven graduates were enrolled in the professional School of Law. The World War interfered

with the development of graduate work, but by the year 1923-24 the graduate enrollment had increased to thirty-five, exclusive of the college graduates who were enrolled in the School of Law. The Committee on Graduate Instruction made an extensive study of the problems of graduate work in the year 1923-24. A better preliminary training in the major field and some familiarity with foreign languages were prescribed for candidates for the A.M. degree. A thesis was thereafter required from every candidate for a graduate degree. Provision was made at that time for the granting of two advanced degrees, Master of Arts and Master of Education. The latter degree was intended especially for professional teachers and educational administrators.

When, through the benefaction of James B. Duke in December, 1924, Trinity College became Duke University, much progress had already been made in organizing a graduate department with advanced courses in many fields of study and with high standards. The Graduate School of Arts and Sciences was established in the academic year 1926-27 as one of the co-ordinate schools which composed Duke University. This school was placed under the jurisdiction of a Graduate School Council and the first Dean of the Graduate School of Arts and Sciences was appointed in the first semester of that year.

With the formal opening of an organized Graduate School, new appointments to the Faculty were made of distinguished scholars who were especially charged with the conduct of graduate work in the various departments. Persons so appointed were given seats in the Graduate Council.

The degree of Doctor of Philosophy was first conferred by Duke University in 1928 upon two candidates from the Department of Zoology. In 1929 there were four Ph.D.'s in Chemistry and one in History. In 1930 there were three Ph.D.'s in History, two in Chemistry, one in English, one in Psychology, and one in Zoology. Since then other departments of the Graduate School have been strengthened from year to year, and the number of Ph.D.'s conferred has steadily increased. The total number of persons who have received the Ph.D. degree from Duke University through Commencement, 1937, is 163. These degrees have been conferred in eighteen different departments. In some departments but one or two such degrees have been conferred.

Since the Graduate School was formally organized in 1926-27, the degree of Master of Arts has been conferred upon 720 persons and the degree of Master of Education has been conferred upon 133 persons.

The steady progress made in the development of the Graduate School has received encouraging recognition from many sources. At the Thirty-fourth Annual Conference of the Association of American Universities held at the University of Iowa in November, 1932, that Association voted to classify Duke University as a "University of Complex Organization" on the "Accepted List of Colleges and Universities Approved by the Association." Previously Duke had been listed as one of the "colleges primarily organized with undergraduate curricula leading to the B.A. or B.S. degree." Since the Graduate School was not formally organized

until the academic year 1926-27, the attainment of recognized standing within five or six years is worthy of note.

A Committee on Graduate Instruction of the American Council on Education conducted a study of graduate instruction in the United States in 1933 and 1934. One hundred scholars in each recognized field of knowledge were asked to indicate by a majority vote the institutions deemed to have an adequate staff and equipment to offer the degree of Doctor of Philosophy in each field. Duke received the required vote in eight fields and was third among the universities of the Southern states in the number of fields in which its teaching and research staff and equipment were approved.

The general recognition which has been accorded to the scholarly training of students who have received the degree of Doctor of Philosophy from the Duke Graduate School is shown by a study that was made in the summer of 1936. Most of the 139 Doctors of Philosophy who had received their degrees from Duke, including the degrees conferred at the 1936 Commencement, held places in the faculty or on the research staffs of about seventy universities, colleges, and school systems. Among the many institutions which may be mentioned in this connection were Alabama Polytechnic Institute, Birmingham-Southern College, the University of Arkansas, the University of Iowa, the University of Kentucky, Louisiana State University, Stanford University, Yale University, Johns Hopkins University, University of Maryland, Smith College, Wellesley College, Washington University (St. Louis), College of the City of New York, Columbia University, New York University, University of Buffalo, Duke University, North Carolina State College, Woman's College of the University of North Carolina, Ohio State University, Bucknell University, Coker College, Furman University, Winthrop College, Wofford College, University of Tennessee, Vanderbilt University, Southern Methodist University, University of Richmond, Virginia Military Institute, and Fukien Christian University (China). Likewise, Duke Doctors hold positions of a research character with many of the leading industrial and governmental organizations of the country.

In recent years commendable progress has been made in co-operative arrangements between the Graduate Schools of Duke University and the University of North Carolina. The library facilities of each institution have been thrown open to the faculty and graduate students of the other. Joint seminars and conferences have been conducted in several departments. Some professors and lecturers have served both universities. Opportunities have been given to students in each graduate school to take courses offered by professors in the other school. This has been especially notable in the field of the classics, where an attempt is in progress to place the combined resources of the appropriate departments at the disposal of advanced students in both universities.

Within the Duke Graduate School new emphasis has been placed during the past year upon the matter of co-operation between related departments. The object has been to encourage students to make use of all possible resources which the University has to offer in aid of study and

research in their respective fields. To this end all departments of the Graduate School have been asked to call attention in their announcements to helpful or closely related courses given by other departments. As a means of improving the organization and supervision of graduate work, the President of the University has appointed in each of the large departments a Director of Graduate Studies. The professor who is charged with this duty is one of those especially qualified to plan graduate study and research and to act as an adviser to students.

During the period 1928 to 1937 Ph.D. degrees have been conferred by Duke University as shown in the following table. This degree was not conferred before 1928.

## BY YEARS

	<i>Number of Degrees</i>
1928 .....	2
1929 .....	5
1930 .....	8
1931 .....	9
1932 .....	17
1933 .....	22
1934 .....	22
1935 .....	29
1936 .....	25
1937 .....	24
<i>Total</i> .....	163

By  
Departments

Biochemistry .....	1
*Biology .....	25
Chemistry .....	29
*Economics and Political Science .....	18
Education .....	6
English .....	16
Forestry .....	1
French .....	2
Greek .....	3
History .....	27
Mathematics .....	6
Philosophy .....	6
Physics .....	8
Physiology .....	1
Psychology .....	10
Sociology .....	4
<i>Total</i> .....	163

\* Departments divided for the following years:

1935—Economics, 1; Political Science, 3; Zoology, 4

1936—Botany, 3; Political Science, 2; Zoology, 3

1937—Economics, 3; Political Science, 2; Zoology, 3.

Since the formal organization of the Graduate School in 1926-27 the degrees of Master of Arts and Master of Education have been conferred each year in departments as shown in the following table:

## MASTER OF ARTS DEGREES CONFERRED BY DUKE UNIVERSITY, 1927-37

<i>Department</i>	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	<i>Total</i>
Biochemistry.....								1				1
*Biology.....	1	2	9	4	1	9	8	5	7	10	4	60
Chemistry.....	1	2	2	6	1	6	8	2	4	5	5	42
*Economics and Political Science.....	2	5	2	6	1	4	10	2	10	9	10	61
Education.....	10	10	9	4	4	10	6	10	14	14	10	101
English.....	1	11	13	8	15	15	15	9	15	12	21	135
Forestry.....											1	1
French.....				4	5	8	6	3	8	5	2	41
German.....		1		1			2	1	1	1	1	8
Greek.....	1		1	1		1		1	2		1	8
History.....	2	9	10	8	7	8	8	5	4	11	11	83
La.in.....	2		2	2	1	2	1	2	2	5	2	21
Mathematics.....	1	4	4	2	6	3	4	6	8	7	7	52
Philosophy.....					1	2	1		1		3	8
Physics.....		4	3		3	1	4			2	7	24
Psychology.....		1	3	2	5		3	1	1	1	4	21
Religion.....	5		5	7	9	13	2			3	5	49
Sociology.....							2	1	1			4
	26	49	63	55	59	82	80	49	78	85	94	720
<i>Master of Education Degrees Conferred by Duke University, 1927-37.....</i>	1	5	5	6	11	8	11	7	17	27	35	133
<i>Total A. M. and M. Ed. Degrees 1927-37.....</i>												853

NOTE 1.—The degree of Master of Education has been conferred beginning with 1927 for the most part on school superintendents, principals, supervisors and others engaged in educational administration. The degree is not conferred upon persons who have not had as much as two years of such experience.

NOTE 2.—The above analysis of Master's degrees conferred by Duke University 1927-37 includes degrees conferred for work during the twelve weeks summer sessions as well as during the academic year from September to June.

\*Departments divided for the following years:

1935 — Botany, 5; Economics, 3; Political Science, 7; Zoology, 2.

1936 — Botany, 3; Economics, 2; Political Science, 7; Zoology, 7.

1937 — Botany, 3; Economics, 5; Political Science, 5; Zoology, 1.

The following table shows the enrollment in the Graduate School by academic years (from September to June) and the number of degrees conferred in each year:

<i>Year</i>	<i>Students Enrolled</i>	<i>A.M.</i>	<i>M.Ed.</i>	<i>Ph.D</i>
1926-27 .....	86	26	1	
1927-28 .....	130	49	5	2
1928-29 .....	175	63	5	5
1929-30 .....	193	55	6	8
1930-31 .....	231	59	11	9
1931-32 .....	260	82	8	17
1932-33 .....	266	80	11	22
1933-34 .....	217	49	7	22
1934-35 .....	227	78	17	29
1935-36 .....	241	85	27	25
1936-37 .....	229	94	35	24

At the beginning of the academic year 1936-37 Dr. Robert S. Rankin resigned as Assistant Dean of the Graduate School in which capacity he



had served for eight years. I desire to express my great appreciation of his constant and helpful co-operation during all of that period. Since February 1, 1936, Miss Edna R. Fluegel held the position of recorder and assistant to the secretary in the Graduate School Office. Miss Fluegel discharged her duties with entire success and resigned during the summer of 1937 to hold an appointment as Duke-Brookings Co-operative Fellow for the year 1937-38. She has continued her graduate studies in political science at the Brookings Institution in Washington. Before this report was written Mrs. Edna Carpenter Baker was appointed to succeed Miss Fluegel and has rapidly acquired a knowledge of her new duties. Dr. Walter H. Delaplane began work as Assistant to the Dean of the Graduate School in February, 1937. He took entire charge of summer school graduate enrollment for six weeks during the summer of 1937 and has been of great aid in the Graduate School administration at all times since his appointment. In concluding, I desire again to state my very great indebtedness for the unusually efficient work and direction of Graduate Office activities by my secretary, Mrs. Rebecca Knight.

WILLIAM H. GLASSON,  
*Dean of the Graduate School of Arts and Sciences.*



## THE SCHOOL OF RELIGION

*To the President of the University:*

I have the honor to present the following report of the School of Religion for the year 1936-37, which is the eleventh session of the School.

Statistical reports are appended showing the enrollment for the year, and the work of the sixty students holding appointments for the summer of 1936 on the Duke Foundation for Aiding Rural Methodist Churches. During the year forty-one students served pastoral charges within reach of the University. These figures do not include students registered for thesis work only, but not actually in residence. The statistics show an increase of four over last year's total attendance. Several of the resident students found opportunity for service as well as valuable experience by teaching Sunday school classes, assisting in young people's work in local churches, and conducting religious meetings at the city jail and in hospitals. Some students have given assistance to the Legal Aid Clinic of the Law School.

During the year fourteen of our graduates pursued advanced work at other universities: Boston, Chicago, Columbia, Edinburgh, and Yale. Edward Emerson Wiley, Jr., of the Class of 1934, was reappointed for a second year to the Gurney Harriss Kearns Fellowship in American Religious Thought and Practice. All the graduates of the Class of 1937, who are not engaged in advanced study, readily found places in the ministry or in other religious work.

Our graduates continue to be in great demand, there being calls during the year for more religious workers than we could supply. In order to take care of the demands for trained men, it appears necessary for us to graduate each year a larger number of men than we have previously done. We are constantly asked to recommend young men not only for the Methodist itinerancy, but also for positions as assistant pastors and directors of religious education. The demand upon our School will be increased still further apparently by the union of the Methodist Episcopal Church, the Methodist Episcopal Church, South, and the Methodist Protestant Church, which is now assured.

During the year there have been important additions to the School of Religion Library. A number of sets of periodicals have been completed, and a large number of reports on excavations in the Near East have been secured. Among the chief acquisitions are: *Excavations of Dura-Europos* (6 vols.), *Palästinajahrbuch*, complete to date (30 vols.), *Corpus Inscriptionum Semiticarum* (21 vols.), *The Babylonian Talmud*, Vilna Edition (21 vols.), *Corpus Scriptorum Ecclesiasticorum Latinorum* (59 vols.).

Several hundred dollars were expended in equipping the School of Religion Library with duplicate copies of all the books required in the Course of Study of the Methodist Episcopal Church, South, as well as books needed by students writing theses. In many cases several copies of books

for reference reading for the large classes of required courses were provided. The reading-room facilities continue inadequate, and the available stackroom space will soon be filled. It is hoped that the early enlargement and rearrangement of the University Library Building will make it possible to relieve the congestion in our Library.

The Faculty for the year was unchanged except that Professor Franklin S. Hickman was absent the second semester as exchange professor at Soochow University in China and Professor William Franklin Stinespring began his work as Professor of Old Testament. In the spring of 1937 Professor Ray C. Petry was secured as Assistant Professor of Church History to begin his work in September, 1937, and Professor Branscomb was granted leave of absence for the year 1937-38 to conduct an investigation of American libraries under the auspices of the Association of American Colleges and the Carnegie Foundation.

The formal opening exercises of the School of Religion were held in York Chapel, Thursday, September 24, 1936, at 11:30 A.M. The devotional exercises were conducted by Dr. C. C. Weaver, Presiding Elder of the Greensboro District of the Methodist Episcopal Church, South. The annual address was given by Professor Hiram Earl Myers, Professor of the English Bible and Acting Professor of Homiletics, on the subject "Some Aspects of Preaching Today."

The Fall Retreat was held October 15, 1936, in York Chapel. The Reverend Walter A. Stanbury, Pastor of West Market Street Methodist Episcopal Church, South, Greensboro, a former member of the Faculty of the School of Religion and a trustee of the University, gave the principal address upon the influence of the minister's own character upon his ministry. After the address the sacrament of the Lord's Supper was administered.

The Phillips Brooks Club under the direction of Dr. Hickman the first semester, and during his absence on leave the second semester, under Dean Elbert Russell, enjoyed one of its greatest years. The average attendance at the monthly meetings of the club has been about thirty-five at the noon luncheon, and about fifty at the lectures. The Homiletics Seminar was discontinued for this year. A varied program of special interest to the ministers of the several denominations who attended was provided by Dr. Hickman and Dean Russell, who lectured the first hour, and in the second hour Professor E. R. Groves of the University of North Carolina lectured on "The Family," Professor W. F. Stinespring on "The Archaeology of Palestine," Professor J. B. Rhine on "Experiments in Parapsychology," and Professor N. I. White on "The Negro Spirituals." A new feature for the year was the participation of the ministers' wives in both the luncheons and the lectures.

The School of Religion had the advantage of the large number of lectures, concerts, and other cultural opportunities which are available for the Faculty and students of the University. Among the lectures of especial interest were the series on International Relations by Professor George M. Stratton, November 16-December 18; two lectures by Professor Paul Tillich, Visiting Professor at Union Theological Seminary on

"The Religious Outlook on Contemporary Civilization" and "The Significance for Religion and Social Ethics on the Totalitarian Theory of the State"; by Gerald Heard of London on "An Anthropologist Looks at International Relations"; and by Madame Helle Scheu-Riesz of Vienna on "The Youth of Europe."

The members of the School of Religion had the opportunity to hear many distinguished ministers who came as guest preachers. The Annual Religious Emphasis Week was held March 3-7, 1937. The guest preacher was Bishop Frederick B. Fisher of Central Methodist Episcopal Church, Detroit. Other guest preachers during the year were Luther A. Weigle, Dean of the Yale Divinity School; Theodore Cuyler Speers, of the Central Presbyterian Church, New York; Albert W. Beaven, President of Colgate-Rochester Theological Seminary; Lynn Harold Hough, Dean of Drew Theological Seminary; Rufus M. Jones, Emeritus Professor of Philosophy, Haverford College; Joseph B. C. Mackie, of Northminster Presbyterian Church, Philadelphia; J. V. Moldenhawer, of the First Presbyterian Church, New York; Edwin A. Penick, Bishop of North Carolina; Paul B. Kern, Bishop of the Methodist Episcopal Church, South; Ivan Lee Holt, recently president of the Federal Council of Churches; E. Stanley Jones of India and John A. Mackay, President of Princeton Theological Seminary. The opportunity to hear these men and in some cases to meet them socially or in discussion groups was a valuable contribution to the homiletic training as well as the religious development of our students. The University Chapel Choir and the various religious pageants, oratorios, and recitals enrich in a very marked degree the experience and training of our students.

The annual Missionary Institute was conducted on April 14 as a joint enterprise of the Board of Missions, Methodist Episcopal Church, South, and the Duke School of Religion. The speakers and program for the year were arranged by Dr. H. P. Myers, secretary of education and promotion of the Board of Missions, and Professor James Cannon, III, of the School of Religion Faculty. The School of Religion Association co-operated, the President, M. C. Wilkerson, presiding over the sessions of the institute held in York Chapel. The speakers were Mr. J. Earl Moreland, formerly a missionary in Brazil and now vice-president of Scarritt College, Nashville, Tenn., Dr. A. W. Wasson, foreign secretary of the Board of Missions, and Dr. H. P. Myers. The visitors held several conferences with students and Faculty. One immediate result of the institute was the appointment of a standing missionary committee of the student body to co-operate with the Board of Missions and the Faculty committee in the conduct of future institutes.

The Annual Conference of the Southern Interseminary Movement was held in the School of Religion Building, February 26-28, 1937, with ninety-seven delegates from the following seminaries: Candler (Emory), College of the Bible, Duke, Gammon, Johnson C. Smith, Louisville Presbyterian, Southern Baptist, Turner, Virginia Seminary, Union, and Yale. There are twenty-two theological schools in the Southern area. The theme of the Conference was "Personal Faith and Christian Community." The

Saturday evening session included a fellowship supper and social in the School of Religion social room.

The first meeting of the Southeast Regional Conference of the American Association of Theological Schools was held at Emory University, Atlanta, Georgia, on March 29. The School of Religion was represented by Professor Paul N. Garber, who also served as the chairman of the nominating committee of the conference.

Duke University and the School of Religion especially had a significant part in the first convocation of the newly organized North Carolina Council of Churches at Winston-Salem, October 26-28, 1936. The movement grew out of the North Carolina Sunday School Convention very largely under the leadership of Professor H. Shelton Smith, who served as secretary of the organizing committee and of the council in its first stages. President W. P. Few and Professor J. M. Ormond are also members of the council. On the program of the convocation were Professors Hickman, Ormond, and Russell of the School of Religion. The School of Religion alumni were well represented in the audience, and six members of the Faculty and a score of the present student body attended.

Several efforts have been made in past years to have some special exercises of the School of Religion at Commencement. These have proved impracticable because so many of the graduates take advantage of the period between final examinations and Commencement to visit their homes, since those on the Duke Foundation for Aiding Rural Methodist Churches go directly from the Pastors' School to their summer work. This year on Sunday of Commencement Week a dinner for the Faculty of the School of Religion and the graduating class was given in the Union, which proved a valuable occasion, socially and spiritually. It seems desirable that the last contact of our outgoing classes should be social and religious rather than merely official.

The ninth session of the Junaluska School of Religion, which is conducted under the joint management of Duke University and the Board of Christian Education with the co-operation of the Board of Missions of the Methodist Episcopal Church, South, experienced another successful session during the summer of 1936. The Junaluska School of Religion is held in connection with the Junaluska Summer School, Inc., and for the past three years Professor Paul N. Garber of the School of Religion has acted as director. Not only was the enrollment larger for the session of 1936 than for the past three years but there is a continued growing interest in this work of the School of Religion. In addition to Professor Garber, courses were offered in the Junaluska School of Religion by Professor Kenneth W. Clark, Professor H. E. Myers, and Dr. Elmer T. Clark.

Some of the special extracurricular activities of the Faculty are listed below. A list of the publications of the members of the Faculty is given elsewhere.

*B. Harvie Branscomb*: Gave the Ely lectures at Union Theological Seminary in April, 1937, on "The Early Christian Conception of the Meaning of Life."



*Charles A. Ellwood*: In June, 1937, delivered the commencement address at Wofford College on "The Function of the Church-related College in Our System of Education"; continued to act during 1936-37 as National President of Pi Gamma Mu, the National Social Science Honor Society. This society is now organized in 130 institutions and has a total of 23,000 members.

*Kenneth W. Clark*: Supply Pastor of Temple Baptist Church, Durham, January, 1937; Baccalaureate sermons at Lowes Grove, Mt. Harmony, Liberty, and Leaksville, N. C.; delivered an address on "The Modern Translations of the New Testament" during Bible Week at Lake Junaluska, 1937.

*Paul N. Garber*: President, Western North Carolina Historical Society; member of Committee on Manuscripts and Membership, American Society of Church History; member of Extension Committee, American Association of Theological Schools.

*Frank S. Hickman*: Spent three months during the spring of 1937 in Soochow University, Soochow, China, as guest professor of philosophy teaching two classes for three months: one in Introduction to Western Philosophy, and the other in an introductory course in Ethics, all the students with one exception being Chinese; also made twenty addresses at Soochow; an address at the biennial session of the National Christian Council in Shanghai, and a sermon in the Community Church of Shanghai. Gave two series of lectures in Japan; one in Kwansei Gakuin, near Kobe; and the other in Aoyama Gakuin, in Tokyo, besides a sermon before the Union Church in Kobe and a lecture before a government commercial college in Matsuyama. In Korea preached in Gensan, delivered an address before the theological seminary in Seoul, and addressed a group of ministers.

*Howard E. Jensen*: Papers before meetings of professional organizations: "On the Natural History Concept in Sociology," American Sociological Society, Chicago, Ill., December 29, 1936. "The Sociologist and His Training," Student Sociological Conference, Chicago, Ill., December 29, 1936. "The Task of Education in Times of World Crisis," a commencement address before Mississippi State Teachers College, Hattiesburg, Miss., August 17, 1936. "The Next Hundred Years in North Carolina Education," North Carolina State Teachers Association, Greenville, N. C., November 15, 1936.

*J. M. Ormond*: Spoke at meeting of the Educational Council of the Methodist Episcopal Church, South, December, 1936, at Nashville, Tenn., on "The Responsibility of the Methodist Episcopal Church, South, for People Who Live in Rural Areas." Taught in Standard Training School, Lynchburg, Virginia, February 14-19, 1937. Dean of North Carolina Pastors' School and Rural Church Institute, Duke University, Durham, N. C., June 14-26, 1937.

*Gilbert T. Rowe*: During the summer, 1936, taught in four Schools for Pastors, spoke twice each day in a series of Bible Conferences in South Carolina extending over a period of four weeks, and also preached

twice each day in a meeting at Augusta, Georgia, extending over a week. At intervals taught courses in several Standard Training Schools.

*Elbert Russell*: Lectured at Institutes of International Relations during the summer of 1936, at Whittier College and Mills College, California, and at Reed College, Oregon. Lectured and preached at the Leadership Conference at Mt. Sequoyah, Arkansas. During the year gave addresses for the Emergency Peace Campaign at eight places in Virginia, North Carolina, and South Carolina and served as dean and lectured at the Duke Institute of International Relations, June 15-25, 1937. Gave four addresses the second semester before the Phillips Brooks Club on "Authority in Religion." Guest preacher at State College, Pennsylvania. University preacher twice a month the second semester.

*H. Shelton Smith*: Member of Executive Committee of the North Carolina Council of Churches; member of the Board of Directors of the Religious Educational Association; member of the Commission on Educational Counseling of the International Council of Religious Education; paper before the State Association of Congregational Christian Ministers at Elon College on "Secularization of American Culture," the fall of 1937; taught a course in the North Carolina Pastors' School, June, 1937; lectured in the state-wide Schools of Missions of the Congregational Christian Church in North Carolina and also Virginia, 1936.

*William F. Stinespring*: Preached three sermons in Durham and vicinity, gave two illustrated lectures on Biblical archaeology to church groups, and talked before the ministerial students of Wake Forest College on the political problems of Palestine; lectured twice before the Classical Club of Duke University on problems of archaeology and epigraphy; gave an illustrated lecture on "Classical Archaeology in Palestine" at the University of Virginia; attended the meetings of the American Oriental Society at Cleveland, Ohio, in April, 1937, and presented a paper entitled "The Emperor Hadrian in Palestine."

#### SCHOOL OF RELIGION STATISTICS Academic Session, 1936-37

##### ENROLLMENT

Men .....	118
Women .....	0
<i>Total</i> .....	118

##### DENOMINATIONS REPRESENTED

Methodist Episcopal Church, South .....	106	Congregational-Christian .....	1
Baptist .....	5	Methodist Episcopal Church .....	1
Methodist Protestant .....	3	Pentecostal Holiness .....	1
		Presbyterian .....	1

##### STATES REPRESENTED

North Carolina .....	59	West Virginia .....	6
Virginia .....	12	Mississippi .....	5
South Carolina .....	8	Alabama .....	3
Texas .....	6	Tennessee .....	3



Arkansas .....	2	Missouri .....	2
California .....	2	Pennsylvania .....	2
Florida .....	2	District of Columbia .....	1
Kentucky .....	2	Indiana .....	1
Maryland .....	2		

## COLLEGES AND UNIVERSITIES REPRESENTED

Duke University .....	26	Hampden-Sydney College .....	1
Wofford College .....	12	Henderson State Teachers' College .....	1
Emory and Henry College .....	7	Kentucky Wesleyan College .....	1
High Point College .....	6	Lambuth College .....	1
Lenoir-Rhyne College .....	5	Murray State Teachers' College .....	1
Millsaps College .....	5	Newberry College .....	1
Morris-Harvey College .....	5	Redlands College .....	1
Birmingham-Southern College .....	4	Rice Institute .....	1
Catawba College .....	4	Roanoke College .....	1
Southern Methodist University .....	4	Shepherd State Teachers' College .....	1
Asbury College .....	3	Southeast Missouri State Teachers' College .....	1
Davidson College .....	3	Southwestern University .....	1
Elon College .....	3	Southwestern College at Memphis .....	1
Wake Forest College .....	3	Tennessee State Teachers' College .....	1
Randolph-Macon College .....	2	University of California .....	1
University of North Carolina .....	2	University of Maryland .....	1
American University .....	1	University of South Carolina .....	1
Berea College .....	1	Virginia Polytechnic Institute .....	1
Central College .....	1	William and Mary College .....	1
Centre College .....	1		
Central Missouri State Teachers' College .....	1		

## INFORMATION CONCERNING SCHOOL OF RELIGION STUDENTS WHO SERVED AS PASTORS' ASSISTANTS DURING THE SUMMER OF 1936

Number of pastors' assistants: 60.

Sermons preached: 1,244.

Number of pastoral visits: 7,782.

Students participated in 80 evangelistic meetings resulting in:

Additions by profession of faith .....	514
Additions by certificate .....	79

*Total* ..... 593

Surveys conducted: 16.

Vacation Church Schools:

Number: 124. Enrollment: 5,474. Instructors: 464.

Cokesbury Schools:

Number: 81. Enrollment: 1,584. Credits earned: 736.

The students engaged in miscellaneous duties, such as Boy Scout work, guidance in recreation and dramatics, Mission Study courses, work with young people, choir and musical direction, issuing church bulletins and mimeographed material, etc.

Approximate number of churches served: 255.

Number of members of churches served: 32,809.

ELBERT RUSSELL,  
*Dean of the School of Religion.*

## THE SCHOOL OF LAW

*To the President of the University:*

I have the honor to submit the following report for the School of Law for the year 1936-37:

### STUDENT ENROLLMENT AND ADMISSIONS

The attendance since the reorganization of the School and its removal to the West Campus at the beginning of the year 1930-31 has been as follows:

1930-31 .....	75	1934-35 .....	103
1931-32 .....	76	1935-36 .....	94
1932-33 .....	102	1936-37 .....	94
1933-34 .....	92		

Though the attendance for the past year remains as in the previous year, the number of inquiries and applications for admissions for the coming year has considerably increased.

Much of the recent talk concerning the overcrowding of the bar has failed to point out the situation actually existing. Though there has been an enormous flood of applicants for admission in all parts of the country, the number of well-prepared candidates has not materially increased; and the needs of the public, the profession, and the applicants themselves are best served by a careful selection of students with a rigid elimination of those who do not show sufficient interest, aptitude, and ability. In many states the standards of teaching have been fixed largely by the attitude and standards of the local bar with the result that the schools have done but little to advance the quality and standing of the lawyer. They have been content to prepare the student to pass the bar examination and have made this to a large degree the objective of the school. It is for the schools to take the lead in the actual improvement of the bar by setting their own standards as to the capacity and training necessary to produce the type of lawyer which the public and the profession really need. The Duke University School of Law has taken this as its objective with the idea that this policy will make for the careful and sound building of the School and the establishment of traditions of study and scholarship which will carry through for many generations of students to come.

Therefore, a strict policy of admission has been adhered to, and students who have made poor records in college have been refused admission. Also students who have made poor records at other law schools and have sought to transfer to this School have been refused. Not only is this sound from a long-range viewpoint as to the type of school that is needed in the South, but it is also in accordance with the best tradition of Trinity College.

## SCHOLARSHIPS AND LOANS

Scholarships to students in the School of Law have been assigned strictly on the basis of scholarship as distinguished from mere grants-in-aid. Though it is true that many men whose college records have been mediocre will make good lawyers and in some cases superlative lawyers, yet in making awards to entering students experience has shown that those who have done exceptionally good work in college are more apt to do a comparable grade of work in the law school. Though the scholarship may be a great aid to a deserving student who needs financial help, the more fundamental reason for limiting the granting of scholarships to those who have shown high accomplishment in their undergraduate work is that these men help to set the standard for the student body in classroom performance and in this way establish traditions of study and scholarship for the whole school. The awarding of scholarships in the second and third years is again determined primarily by the student's accomplishment rather than by his need alone. There is, therefore, the opportunity for one who was not granted a scholarship at the time of his entrance to secure such aid by proving his actual ability in law study.

Through the use of the student loan fund many students who have not rated the aid of a scholarship have been able to secure much needed assistance. The test in granting such loans has been satisfactory scholarship in the Law School rather than the test of the superior accomplishment required for the awarding of a scholarship.

There exists a great need for either grants-in-aid or student loan funds in addition to an amount which is only sufficient to pay tuition and matriculation fees. Particularly does this need exist in the Southern states, where many of the young men come from homes of moderate, or less than moderate, means. The difficulty of the young man who is seeking to secure a high type of professional training is well expressed by an applicant who made inquiry concerning tutoring or waiting on tables or any kind of work which he might do in order to pay a part of his living expenses. He says, "I am trying to see my way through three years of graduate study after the strain of four college years on my bank account." The difficulties such students have are enhanced by the fact that the West Campus is a considerable distance from the business center of Durham, thus practically limiting the student to such work as is available on the campus, where the competition for jobs is very keen. It is also to be borne in mind that the professional student who seeks to do much outside work is apt to find himself in difficulty with his study because of the standard of accomplishment set by the School.

A start has been made towards the building up of a loan fund which might be used freely for students of the right type. Through the generosity of Mr. P. Frank Hanes of Winston-Salem, a fund of \$1,000 has been established from which small student loans may be made. Another small fund has been established, amounting to \$255, from which very small loans, from five dollars up to ten, fifteen and sometimes twenty dollars, are made to meet short-period emergencies. Both of these funds have

been of great assistance and, particularly that of Mr. Hanes, point the way toward relief for the very needy and responsible students to whom a little temporary assistance means being able to stay in school.

### HOUSING NEEDS

During the past year but few law students have been able to secure rooms in the college dormitories, and nearly all of these are rooms which have been held over from undergraduate college. This situation has been brought about largely by the fact that students from other schools desiring to enter the Law School are not in position to make application for rooms at the time when the allotment of dormitory space is made about the middle of May. This has to my knowledge discouraged many students from coming to Duke. Some, after having put in an appearance, because of their discouraging search for suitable quarters, have left to go to a school nearer home where they are more familiar with conditions. The few who have been in position to make application for rooms in the early spring, and have been lucky enough to be assigned quarters, have complained much of the fact that they have been thrown with lower class men in Trinity College, whose activities and interests are very different from those of the professional student, thus making it difficult to do the most effective law study. This condition could be remedied by making a definite allotment of rooms to be occupied by law students and by putting such students together in one dormitory. Many of the law students are living in town under conditions which are not conducive to health or habits of study. In addition to definite dormitory quarters to be assigned to law students, there is also a great need for simple and low-cost housing accommodations to be allotted to carefully selected students who want simple but healthful quarters where they may establish a center for the serious study of law without the distractions or interruptions which are sometimes brought about because of close association with underclass college men.

### LAW SCHOOL BUILDINGS

Though the Law School Building cannot be said to be inadequate, it is much better adapted to collegiate than to law school use. Already the library space has been practically exhausted. Shelving has had to be placed in stairways and in rooms separated some distance from the main part of the Library. This makes the use of the Library difficult both for the students and for staff management. Individual study space is needed for students where they may gather together the books with which they are working and have them remain undisturbed until the student has finished the particular problem which he is investigating. Locker-room space and lockers are also much needed. Students rooming off campus could then keep their personal books and belongings at the Law School, thus enabling them to spend a greater portion of their time at the Law Building.

Since additional space may be needed for Arts and Science purposes, it is to be hoped that the present quarters now occupied by the Law School



may be taken over by them and that a new law building more especially adapted to law school purposes might be erected on the campus.

#### FACULTY

There will be one change in the Faculty this coming year. Professor Elvin R. Latty has been appointed to a full professorship, coming to this Law School from the University of Missouri, and having formerly taught at the University of Kansas. He was also an instructor in Romance Languages at the University of Vermont, and is to teach during the coming summer at George Washington University School of Law. He holds degrees from Bowdoin College, the University of Michigan, and has a Doctor's degree in Juridical Science from Columbia University, where he was special fellow in the Law School in 1933-34. He is a member of the New York Bar and practiced with Sullivan and Cromwell in New York City for three years, representing them in their Buenos Aires, Argentine, office for one year. His teaching has been largely in the field of business law. His main work at Duke will be in Business Associations. In addition to various law review articles, he is the author of a recently published book, *Subsidiaries and Affiliated Corporations*. He takes the place of Assistant Professor Rush, who has returned to the legal department of Union Carbide and Carbon Company, with which he had been connected prior to joining the Duke Law Faculty.

During the past year two members of the Faculty, Professors McDermott and Cavers, have been on leave of absence, each for one semester. During the first semester Professor Malcolm McDermott was in Poland as visiting lecturer at the Universities of Krakow and Warsaw under the auspices of the Kosciuszko Foundation. While there he made a study of the Polish legal system and the nature of legal education in its universities. In collaboration with Dr. Rasel Lamkin of the Warsaw Bar he translated the Polish criminal code into English. Hitherto this noteworthy code has not been obtainable in English, and its publication is planned at an early date. Upon his return Professor McDermott delivered many addresses before various groups. His general observations on continental legal systems were embodied in an article published in the April, 1937, issue of *The South Atlantic Quarterly*.

Professor David F. Cavers was visiting professor of law at the Yale Law School during the first semester, teaching the subjects of Administration of Estates, Vendor and Purchaser, and Public Control of Business at that institution. Prior to and upon his return from the Yale Law School Professor Cavers acted as a member of the Commission on Revision of North Carolina Laws Relating to Estates.

During the year he has published an article entitled "New Fields for the Legal Periodical," 23 *Virginia Law Review*, 1-21; two book reviews in the *Yale Law Journal*, and another in the *Harvard Law Review*. He also wrote a number of short articles for *Law and Contemporary Problems*, of which he is the editor.

During the past year a number of members of the Faculty have given addresses before local, state, and national associations. Professor W.

Bryan Bolich addressed the North Carolina State Bar and Professor J. Douglass Poteat read a paper before the South Carolina Bar Association. Professor Charles L. B. Lowndes delivered addresses before the National Tax Conference and the North Carolina Bankers Association. He was also the author of the following articles published during the year: "The Tax Burden of the Supreme Court, 1935 Term," 5 *Fordham Law Review*, 426; "The North Carolina Gift Tax," 64 *Trust Companies*, 569; together with book reviews published in the *Illinois Law Review*, the *Yale Law Journal*, and the *North Carolina Law Review*. During the year he also published, in mimeographed form, *Cases and Materials on the Law of Taxation*.

Professor John S. Bradway, in addition to many addresses at national and state legal aid organizations, was the author of the following articles: "The Myth of the Innocent Spouse," 11 *Tulane Law Review*, 377; "Tampering with Marriage," 6 *Brooklyn Law Review*, 277; and "The Value of the Legal Aid Clinic to the Bar Examiner," 6 *The Bar Examiner*, 67. He also published, in mimeographed form, *Duke Legal Aid Clinic—Instruction to Students*.

Professor L. L. Fuller wrote an article entitled "The Reliance Interest in Contract Damages," which appeared in the November, 1936, and January, 1937, issues of the *Yale Law Journal*.

Professor H. C. Horack read papers before the National Conference of Bar Examiners at the American Bar Association, and before the Library Section at the meeting of the Association of American Law Schools. The first paper was published by *The Bar Examiner*, 154, and 8 *American Law School Review*, 611, and the second in 30 *Law Library Journal*, 6. He also made addresses on legal topics before several local bar associations.

Professor Douglas B. Maggs has worked on the four volumes of *Selected Essays in Constitutional Law* to be published by the Association of American Law Schools in the near future. He has also been general editor of these volumes. He has published book reviews in the *North Carolina Law Review* and in the *Yale Law Journal*.

Mr. William R. Roalfe, Law Librarian, made addresses before the Library Section of the Association of American Law Schools, and before the American Association of Law Libraries, of which latter association he was president.

#### PERIODICALS

*Law and Contemporary Problems*, under the editorship of Professor Cavers, has shown continued and rapid growth, which has required the printing of several more numbers from earlier volumes. Volume IV was completed this year and contained discussions of the following subjects: Farm Tenancy, Price Discrimination and Price Cutting, and two issues entitled "Three Years of the Securities Act," dealing with legal, economic, and administrative problems raised by Federal control of security issues. The last-mentioned symposium met with a considerable demand from the bar and from investment banking houses.



The *Duke Bar Journal*, issued by the law students organized as the Duke Bar Association, appears in a new and improved format. It is published twice each year and contains an account of the proceedings of the association with addresses delivered at their meetings. During the past year the following speakers have appeared before them: Dr. Ralph McDonald, on Some Thoughts of a Layman Concerning Legal Education; J. A. Smith, Jr., Administrative Assistant to J. Edgar Hoover, on Law School Graduates in the Federal Bureau of Investigations; Dr. E. R. Groves, on Hazards of Modern Marriage; and the Honorable Thurman Arnold, on The Folklore of Capitalism. Each issue of the *Journal* also contained a number of notes and comments written by students in Professor Cavers's class in Current Decisions.

A mimeographed publication entitled the *Law School Bulletin* has been issued monthly during the year. It has been devoted to news of the library and personal items concerning Law School alumni. Miss Mary Covington, Research Librarian of the Law School, has been responsible for much of the material, particularly the alumni notes and personals which have appeared in this publication.

#### LIBRARY

While no outstanding addition has been made to the Library during the past year, and while, numerically speaking, the growth has been more modest than in any recent year, the collection has nevertheless been materially strengthened. The normal growth, provided by the regular continuations and the purchase of contemporary materials, has been augmented by the acquisition of many odd volumes required to complete long runs and in some instances entire sets where these have long been out of print. Particular emphasis has been placed upon legal periodicals, bar association reports, and the session laws and statutory compilations for the forty-eight American states. The addition of fewer items during the year is attributable, first, to the fact that a somewhat smaller fund has been available for the purchase of books and, second, to the fact that on an average the items purchased have been more expensive. Nevertheless, 4,095 separate pieces were acquired during the fiscal year, including 1,594 bound volumes and 2,501 unbound pieces, exclusive of periodical numbers and items of temporary value currently received. The collection now contains 57,406 bound volumes. As usual, donations from friends of the Library have been helpful. During the year forty-two persons have contributed books, pamphlets, or other materials.

There has been a noticeable increase in the use of the Law Library by members of the bar and by the Faculty and students of the history, political science, and sociology departments. The pressing needs of the Law School itself, both for its educational program and for legal research, continue to tax the Library's resources to the utmost. The greatest deficiency is in the field of foreign law. Present budgetary limitations preclude the proper allotment of funds for this purpose. Both because of the current all-university needs and because of the importance of building

for the future, adequate provision for a systematic program of development in this field would be highly desirable.

The library service is being consistently improved both through the gradual acquisition of essential materials and by the progress being made in organizing and cataloging the collection. Nevertheless, in such a relatively young library, the staff is confronted with quite a serious problem when called upon to serve a law school whose program is in keeping with the traditions of the better law schools where the collections have been assembled over a period of many years. It is for this reason that, however satisfactory the library service may appear for certain restricted purposes, it should be obvious that only by maintaining a continuous program of development can there be assembled a collection adequate to meet the future needs of the Law School and the University as a whole.

#### LEGAL AID CLINIC

During the academic year 1936-37 three hundred and twenty-six applications were made to the Legal Aid Clinic for service. Of those, sixty-two arose outside of North Carolina and three outside of the United States. Forty-six cases were taken to court. Eight pieces of legislation were prepared in response to requests from clients. Five of these were passed by the legislature.

Representatives from several other law schools visited the Clinic with a view to establishing similar agencies in their own institutions and correspondence was conducted with others. The work received national recognition through an article in the January, 1937, issue of the *Readers' Digest*.

H. CLAUDE HORACK,  
*Dean of the School of Law.*

## THE SCHOOL OF MEDICINE

### *To the President of the University:*

During the past year the School of Medicine, the School of Nursing, the School of Dietetics, and the Hospital have continued their progress, as shown in the attached table. We believe this growth has been healthy, and that the quality of the teaching and of the care of the patients has been adequate.

On June 7, 1937, forty-eight physicians were graduated, and on September 30, 1937, seventy-one first-year students were admitted. The latter were selected from five hundred and six completed applications.

The present two hundred and forty-five students were prepared at one hundred and thirty-one colleges and universities. Twenty-two per cent of the medical students were born in North Carolina; the remainder came from thirty-five other states and foreign countries.

Of the two hundred and five graduates to date, one hundred and twenty-eight have completed the required two years of interne service. Seventy-nine per cent of our graduates are voluntarily taking more than this requirement. These physicians are interning or practicing in twenty-nine states and three foreign countries. Seventeen towns in North Carolina and three in South Carolina have one or more of our graduates.

On November 11 to 13, 1937, the fourth Post-Graduate Symposium was held. The subject was the Diseases of Women and Children. The attendance was even larger than that last year. For their assistance in making this conference a success the thanks of all of us are due: Dr. Frank E. Adair (Memorial Hospital), Dr. C. A. Aldrich (Northwestern University), Dr. Horton Casparis (Vanderbilt University), Dr. Willard Richardson Cooke (University of Texas), Dr. Julius H. Hess (University of Illinois), Dr. Howard Francis Kane (George Washington University), Dr. George W. Kosmak (New York City), Dr. Esther L. Richards (Johns Hopkins), Dr. M. Pierce Rucker (Richmond), Dr. Charles Hendee Smith (New York University), Dr. Bayard Carter, Dr. Angus McBryde, Mrs. F. H. Swett, Mrs. W. B. Morgan, and many others.

In addition to the above symposium, the following visiting lecturers have addressed the Staff and students during the past year: Dr. J. S. L. Browne (Montreal), Dr. Sanders L. Christian (U. S. P. H. S.), Dr. David M. Davis (Jefferson Medical College), Dr. Jonas S. Friedenwald (Wilmer Institute), Dr. Eric M. Matsner (New York), Dr. George W. McCoy (U. S. P. H. S.), Dr. A. Graeme Mitchell (Cincinnati), Dr. W. H. Stoner (Burroughs Wellcome Experimental Research Laboratories), and Dr. Hugh H. Trout (Roanoke).

Through the co-operation of the medical schools of the University of North Carolina, Wake Forest College, and Duke University, a post-graduates course was held for Negro physicians at the Lincoln Hospital, November 8 to 10, 1937. Dr. David T. Smith and Dr. Charles S. Mangum were in charge of the program.

The following new members have been added to the Faculty of the School of Medicine: Dr. Lenox D. Baker, Instructor in Orthopedics; Dr. Joseph W. Beard, Assistant Professor of Surgery in charge of Experimental Surgery; Dr. J. Lamar Callaway, Instructor in Dermatology, Syphilology, and Medicine; Dr. Cyrus C. Erickson, Instructor in Pathology; Dr. George B. Ferguson, Instructor in Bronchoscopy; Dr. Jerome S. Harris, Instructor in Pediatrics and Biochemistry; Dr. Henry I. Kohn, Instructor in Physiology; Dr. Ross C. MacCardle, Instructor in Anatomy; Dr. Walter Marx, Research Associate in Experimental Surgery and Biochemistry; Dr. Walter L. Thomas, Assistant Professor of Obstetrics and Gynecology; Dr. Barnes Woodhall, Assistant Professor of Surgery in charge of Neuro-surgery; and Dr. Karl A. Youngstrom, Instructor in Anatomy.

During the past year Miss Perry Gibson started the Social Service Division of the Hospital. Through the co-operation of the University of North Carolina and Duke Hospital, and with generous anonymous assistance, this division will form part of a joint training school for medical social workers.

Through the generosity of Miss Grizzelle M. Norfleet and with the co-operation of Dr. Lenox D. Baker, Dr. R. Beverly Raney, Dr. Robert L. Flowers, and Duke University a school for spastic children has been established which will be of inestimable service to these patients.

Mr. F. V. Altvater has instituted three or four internships in hospital administration which are available to university graduates, whose character, tact, and ability for leadership are good, and whose academic standing is high. These internships are of three years' duration and pay a small salary in addition to maintenance. The instruction is practical rather than theoretical in emphasis. The internes are rotated through five different assistant administrative positions in the Hospital. There also is a weekly seminar lasting two hours.

Through the generosity of the Duke Endowment, to the Trustees of which all of us are very grateful, the quarters for experimental animals have been enlarged, and much needed and valuable equipment added.

The Private Diagnostic Clinic has outgrown its former quarters, and has been divided into medical and surgical divisions. This diagnostic clinic, in addition to providing facilities for private patients, serves those of moderate means, and is a valuable adjunct to the medical service in North and South Carolina.

The Duke University Medical Society was organized in 1937 to facilitate the presentation of current medical problems before the students, the Staff and other interested persons in the University and professional community. Meetings are held monthly during the academic year, and the programs consist of short case presentations and discussions, followed by a description of some staff or student research project. Occasionally, guest speakers from other institutions are invited to participate in the programs.

Miss Jessie Harned has been appointed Instructor in Record Library Science, and will conduct a course for record librarians, which includes the theory and practice of record library science.

The research carried on by the Staff and students continues to increase creditably. One hundred and twenty-four articles have been published by one hundred authors. Additional financial support is needed for numerous other problems for investigation.

The Medical School is receiving year by year a steadily increasing number of gifts and grants-in-aid for research studies (see attached list). It is strongly emphasized that without such aid very little special research could have been done, and the generosity of the donors is greatly appreciated.

An additional building between the Hospital and Nurses Home is greatly needed for a private diagnostic clinic, examining rooms for private patients, private rooms, quarters for internes, classrooms, and a dining-room for nurses. The present accommodations are overcrowded. It is estimated that the income from this building would, in addition to covering the cost of heat and upkeep, yield an income of three per cent on the investment. The space in the present medical building, which would be freed by this change, would provide badly needed laboratories.

The University has outgrown the present dormitory accommodations, and this problem is particularly acute for the medical students. Only 36 per cent of our students are able to live in the present dormitories; the others are more handicapped than academic and graduate students, because medical students, due to their long hours and night work, especially during their clinical years, should live near the School. A graduate and professional student dormitory near the Hospital is one of our most vital needs.

The number of nurses, dietitians, anesthetists, physiotherapists, and women internes exceeds the beds in the Nurses Home. Through the cooperation of the University and the Duke Endowment, four houses and three cabins near the Hospital are providing additional accommodations, but more are needed during the coming year.

Tennis courts for the internes, and students of medicine and nursing, and more parking space for the patients and their relatives are needed near the Hospital, as shown on the plan submitted in 1934. The road in front of the Hospital should be re-routed behind the power house to decrease the traffic, which constitutes an ever present danger to the lives of both patients and Staff.

Among other great needs are increased development for nursing education, psychiatry, neuro-physiology, neuro-anatomy, preventive medicine, public health, obstetrics, and gynecology. The minimal requirements in those fields are being met at present, but expansion is necessary and urgent.

One of the greatest problems of medical education in the South is the maldistribution of physicians. Conclusions that the medical profession is overcrowded are correct for New York, Boston, Philadelphia and Chicago, but are invalid for the South. Over half of the two hundred and forty-one counties in the United States with inadequate medical service are in the ten Southern states, and fifteen are in North and South Carolina. The ratio of physicians in North Carolina ranges from one physician to 430 people in an urban county to 1 to 3,776 in the country. Rural counties



which contain 43 per cent of the population have only 30 per cent of the physicians.

The distribution of physicians in South Carolina is similar, ranging from one physician to 826 people in an urban county to 1 to 4,512 in a rural area. In the urban centers there is one recent graduate to every 4,798 people, while in the rural areas the ratio is 1 to 14,462.

The area per physician in North Carolina ranges from 3.6 square miles in an urban county to 203.8 square miles in a rural area, with an average of 21.7 square miles per physician. In South Carolina, the average area per physician is 25.1 square miles, but it varies from 6.3 to 248.6 in urban and rural counties, respectively.

The South will not get its physicians by migration; the students should be Southern and to get country doctors it must be possible for students from the rural counties to study medicine. Graduates tend to return to the environment to which they are accustomed. For example, 83 per cent of the country students at the University of Tennessee return to rural practice, and 80 per cent of the urban youths later practice in the city. Rural students rarely are wealthy or have resources for raising money. Probably the best way by which a sufficient number of country students can attend medical school is through loan funds, which can be repaid over a period of years, and thus become available for future students. Scholarships, such as those of the Commonwealth Fund, for students who agree to practice in the country, are splendid and have demonstrated their success, but require too great an outlay to be widely available, and usually do not create in graduates a healthy sense of obligation toward their university. A revolving loan fund on which 6 per cent interest is collected is an ideal investment for University endowment funds, since medical students can and do repay their debts, and it will enable keen rural students to return to country practice. Duke students after their first year may borrow up to \$450 per year at 6 per cent, and the principal is repaid in installments starting two years after graduation (see attached table). An average of \$10,000 loaned annually has enabled practically every worthy Duke medical student to continue his education.

The establishment of rural hospitals in North and South Carolina with the splendid aid of the Duke Endowment is improving the medical service in the country, and attracting young physicians there. Of the 638 recent graduates who have settled in North Carolina since 1925, only 64 located in towns without hospitals. In addition, local hospitals influence the older physicians who have kept abreast of the times, to remain in rural communities.

One of the major objectives of the Hospital Section of the Duke Endowment is to bring about a better distribution of well-trained physicians by an improvement and an extension of available facilities for the practice of modern medicine, which exist in and not apart from hospitals. Since the establishment of the Duke Endowment in 1924, the percentage bed occupancy of the general hospitals in North and South Carolina has risen from 51 to 63, and the number of general hospitals has increased from 140 to 163. In 1924 the average size of all general hospitals in the Carolinas was 44 beds; twelve years later it was 58 beds. During this



period the Duke Endowment has contributed \$7,743,843 to 149 hospitals at the rate of \$1.00 per day per charity patient day. It also aided 68 hospitals with \$2,766,187 for buildings and equipment. A number of other factors also have influenced this strong upward trend in the use of hospitals, such as increased income from patients, a slackening of additional construction during recent years coupled with a comparatively rapid increase in population, a growing appreciation on the part of both physician and patient of the importance of the hospital in the treatment of serious illness or injury, increased contributions from tax funds and other sources for the care of charity patients, and the gain in the average size of hospitals.

Not only do rural communities need hospitals, but equally important, if they have a hospital, they require financial assistance to enable the people to use the hospital. Bed occupancy is as vital as the beds themselves. Modern medical service cannot exist without hospitals, and hospitals cannot exist without support from endowments, state, county or federal aid, or voluntary hospital care associations. Because of present financial conditions, endowments are becoming rare; and state, county, and federal aid may bring political control. The voluntary group hospital care association seems to be the logical answer. England started the movement, and Texas and North Carolina demonstrated its practicability in the South. Church contributions to hospitals help, but the hospital contributions of the 2,748,686 members of one of the largest denominations have averaged less than 1½ cents per member annually, while the Hospital Care Association in Durham, N. C., paid the hospitals an average of \$7.13 per member annually.

Only half of the patients who need hospitalization are able to pay for their hospital care. Serious illness for the remainder results in medical charity or financial tragedy. In the unanticipated loss of financial support which death brings to a family, and the unanticipated loss of a man's business by fire, advantage is taken of the insurance principle, which anticipates and apportions such losses over long periods of time and over large groups of the people. Total burdens that crush individuals are borne easily when divided. Group hospital care is a similar insurance plan by which large numbers of individuals make regular fixed payments into a common fund to be used for the purchase of hospital services when needed by the subscriber. Self-supporting citizens thus can budget their expenses, and the hospital bills are paid in full by the Association.

The Hospital Care Association was organized on a non-profit basis in Durham, N. C., in 1933 with a personal loan of \$250 as capital, to provide a convenient and "painless" method of paying hospital bills, and thus to relieve the hospitals in North Carolina of part of their charity load. Each of the members pays thirty-five cents to one dollar per month, depending upon the type of service desired, and in return the Association annually provides twenty-one to thirty-five days of hospital care. Credits for hospitalization are provided by the participating hospitals until the premium income of the Association makes it self-supporting. In 1935, a similar organization, The Hospital Saving Association, also was started in North Carolina, and likewise is growing rapidly. Each association now

has over forty-five thousand members. The church, community, civic clubs, medical profession or others interested in human welfare can start one of these hospital care association groups.

As stated in previous reports, all of us feel that the progress which has been made by the School of Medicine and Hospital since their opening in 1930, can be maintained only by doing more and better work, and we are making every effort toward that goal.

WILBURT C. DAVISON,  
*Dean of the School of Medicine.*

#### GIFTS TO THE SCHOOL OF MEDICINE AND HOSPITAL, 1936-37

The Duke University Research Fund contributed \$4,425 to various departments of the School of Medicine.

An anonymous benefactor gave \$10,000 toward the institution of a Social Service Program.

Mr. A. P. Harris, of Albemarle, N. C., gave \$500 for the special care of moribund patients.

For the purchase of a bronze bust of Louis Pasteur, which now stands in the lobby of the School of Medicine, Dr. Frederic M. Hanes gave \$500.

To the Anna H. Hanes Research Fund the following contributions were made:

Mrs. John Wesley Hanes.....	\$5,000
The Staff of the Department of Medicine.....	7,000
Mrs. Elizabeth Hanes.....	5,000
Dr. Frederic M. Hanes.....	5,000

The Valentine Meat Juice Company, Richmond, Virginia, gave \$200 for the study of liver extracts in the treatment of certain deficiency states.

Mr. James A. Greene, of Atlanta, Georgia, established the James A. Greene Research Fund for the study of Brucellosis with a gift of \$5,000. To this fund Dr. Frederic M. Hanes contributed \$5,000, and \$5,000 was added by an anonymous donor. Studies on Brucellosis are being actively carried forward by one research fellow and one technician, with the valuable co-operation of Miss Mary A. Poston, of the Department of Bacteriology. Dr. Alice C. Evans, of the National Institute of Health, Washington, D. C., has given invaluable aid and advice to those working under this grant.

An anonymous friend of Duke University has given \$175,000 for the endowment of the Florence McAlister Professorship of Medicine.

The Westinghouse Electric and Manufacturing Company gave ultra-violet lamps and accessories for experimental work in the air sterilization of operating rooms.

Miss Grizzelle M. Norfleet, of Winston-Salem, N. C., contributed \$10,000 for the founding of a school for spastic children under the direction of the Orthopedic Division.

The Rockefeller Foundation made a grant of \$3,000 for research on pellagra, and also contributed \$1,600 toward the expense of studies on Vitamin G.

The Markle Foundation contributed \$4,000 annually for two years for a comprehensive research program on the diagnosis and treatment of fungous infections.

The Lederle Laboratories, Inc., made gifts totaling \$1,300 for studies on black-tongue in dogs and pellagra, contributed \$1,000 for a Fellowship in Biochemistry, and also made \$4,500 available for the study of viruses.

The Hoffmann-La Roche Company contributed \$100 in research materials.

The Winthrop Chemical Company donated 900 milligrams of pure lacto-flavin at an approximate cost of \$3,600.

An anonymous donor gave a biophotometer costing \$280.

Merck & Company contributed 200 grams of ascorbic acid (Vitamin C), and 1,800 milligrams of pure Vitamin B<sub>1</sub>, and other materials, costing approximately \$500.

Mead, Johnson & Company gave \$500 worth of food and other preparations used in the study of deficiency states in children.

The Emergency Committee in Aid of Displaced Foreign Physicians contributed \$750 toward the salary of Dr. Ernest Bruch.

The Staff of the Department of Pathology contributed \$2,000 for the research and other activities of the Department.

The Staff of the Department of Obstetrics and Gynecology used \$4,030 of their income from private practice for technicians and secretaries.

The following companies gave drugs and other materials to the Department of Obstetrics and Gynecology, the costs of which are listed below:

Schering Corporation .....	\$1,233.90
Ayerst, McKenna and Harrison .....	6,274.28
Parke, Davis & Company .....	879.89
E. R. Squibb & Sons .....	671.50
G. W. Carnick Company .....	100.00

#### GROWTH OF THE SCHOOL OF MEDICINE AND HOSPITAL

	1934	1935	1936	1937
Medical students .....	210	220	243	245
Percentage of medical students in dormitories ....	64%	60%	53%	36%*
Pupil nurses .....	70	68	71	73
Internes and residents .....	49	57	64	71
Graduate nurses .....	83	107	110	119
Av. daily patient census ...	236	279	308	311
Maximum daily patient census .....	278	339	348	355
Total days of hospital care	86,111	100,969	109,150	113,654
Total consultations in				
Public Dispensary .....	40,949	45,681	48,500	50,000
Total collections from bed patients .....	\$167,673	\$193,027	\$240,000	\$297,000
Total contributions from the Duke Endowment and counties .....	\$ 82,147	\$108,598	\$109,500	\$121,960
Av. daily per capita collection from all sources .....	\$ 2.91	\$ 2.99	\$ 3.11	\$ 3.69

\* Twenty-eight per cent additional are living in the Hospital and cabins.

#### LOANS MADE BY DUKE UNIVERSITY TO STUDENTS OF THE SCHOOL OF MEDICINE\*

Year Ending	Payments	
June 30	Loans	Interest      Principal
1931 .....	\$ 5,800.00	
1932 .....	14,630.00	\$ 348.00
1933 .....	15,554.00	884.31
1934 .....	13,725.00	1,685.76
1935 .....	11,186.66	2,356.28
1936 .....	10,150.00	2,945.05
1937 .....	8,150.00	3,637.11
Totals .....	\$79,195.66	\$11,856.51      \$9,892.76

\* The average annual interest paid by the medical student borrowers has been 4.65 per cent, but delayed collections probably will raise this rate nearly to the 6 per cent which is charged. Since the repayment of the principal of these loans does not start until the completion of the required two years of internship and extends over six years, eleven years is the shortest time in which the final repayment is due, i.e., three years in medical school, two years' internship, 10 per cent repayment annually for two years, and 20 per cent repayment annually for four years. Actually the time may be longer, since 79 per cent of Duke students spend more than two years in hospital work, and repayments may be deferred during this period. Assuming that \$10,000 is loaned annually, that twelve years are required for repayment, that 6 per cent interest is charged and 5½ per cent collected, and that 1 per cent covers the losses, assumptions that are sound, this loan fund of \$120,000 (\$10,000 X 12 years) yields a 4½ per cent net return, and enables worthy students to study medicine.

## THE DUKE FOREST

*To the President of the University:*

Herewith I submit the report for the Duke Forest for the year 1936-37, in which brief statements are made concerning the progress of our developments in forestry. In the preparation of this report I have received the very helpful co-operation of Professor William Maughan, Assistant Director of the Forest, and Professor Ellwood S. Harrar, for which I am grateful.

### EMERGENCY CONSERVATION WORK

During the past year the Forest Staff continued the co-operative undertakings with the Soil Conservation Service of the United States Department of Agriculture begun in 1935. As during the previous year, the principal activity from a forestry standpoint was another large forest-planting program on retired or abandoned submarginal agricultural lands. A total of 128.7 acres were planted under agreements by which the Soil Conservation Service supplied the C.C.C. labor for planting and part of the supervision, while the Forest Staff planned the plantings, supplied the tree seedlings needed, and assisted with the supervision.

Of particular interest is a project undertaken in the stream bottom running from Duke University Road down to Sand Creek. This area is probably one of the best sites for timber growing in the Forest, but it was in an entirely unproductive condition owing to a dense growth of honeysuckle, briars, and shrubs which prevented the natural establishment of any worth-while tree species. The problem was how to get a stand of trees established at low cost in the face of intense, and for the most part fatal, competition offered to young tree seedlings by the mat of vegetation present in the area. Since this condition is quite frequently found in the fertile bottomlands of this part of the Piedmont plateau and the problem is therefore of regional import, the Soil Conservation Service agreed to co-operate on an experimental planting study which involved considerable labor. The area was divided into four parts, and on one part all vegetation was cleared away, piled and burned; on another part an attempt was made to grub out most of the honeysuckle and brier roots after the area was cleared. After clearing, one-year old yellow poplar seedlings were planted. On a third part an attempt was made to broadcast burn with no other work before planting to tree seedlings; and the fourth part was planted to tree seedlings without any preparatory work being done. The results obtained on the last-mentioned area will be used as a check on the effectiveness of the preparatory work on the other plots. The results obtained from the different methods of treatment should give an indication of the most practicable approach to the solution of the problem.

In the course of this year's co-operative planting program with the Soil Conservation Service, three main areas were completed. The remaining portion of the cultivated land lying north of the Cornwallis Road in Com-



partments 34 to 42, inclusive, the whole Scoggins tract near Funston siding, and the Turnage tract along the Erwin Road were completely planted during the year.

As mentioned later in this report, the Soil Conservation Service also co-operated with the Forest Staff in extending the experimental clear cutting in the overmature, decadent, hardwood and mixed pine-hardwood stands which was started last year. The objective of this experiment is primarily to study silvicultural methods of regenerating these stands in such a way as to obtain a desirable composition in the new stand. On this project the Forest Staff planned and helped supervise the operation, while the Soil Conservation Service supplied the labor and part of the supervision and received one-half of the wood for fuel at the local C.C.C. camp.

The Forest Staff is again fortunate in being able to obtain this co-operative assistance, and plans will be made to take advantage of it as long as it is available. It is felt that the Federal Government is doing a very worth-while work through the Soil Conservation Service and the Civilian Conservation Corps, not only in actually carrying out specified amounts of such work, but also in leading the way in showing the public by means of actual examples. It is to be hoped that such conservation activities will become a part of a permanent Federal program.

#### NATIONAL YOUTH ADMINISTRATION

Continuation during the 1936-37 college year of the Federal Government's program of providing funds for assistance to college students under the National Youth Administration enabled the Forest Staff again to carry on many projects of an investigative and research character.

Although there was a slight reduction during the past year in the total amount of assistance obtained through this source, a total of 6,314 man-hours were devoted to forestry work. Of this total, 4,333 were spent in work in the Forest. As during the preceding year, the principal projects undertaken in the Forest in order of time devoted to each were: pruning of young timber stands on a little over 32 acres to extend the study of pruning as a silvicultural operation; refilling of failed spots in several experimental plantations, and the establishment of several new areas; re-measuring and remarking of several permanent sample plots previously established; continuing work on the volume study of red cedar, several studies in forest soils, and numerous other projects of a minor nature.

The remaining 1,981 man-hours were devoted to inside work which consisted primarily of drafting of maps and charts, research assistance in the forest soils and wood technology laboratories, calculating and tabulating of data collected on research projects, and general office work.

#### FIRE PROTECTION

Five fires occurred in the Duke Forest during the year 1936-37. This is the smallest number occurring during any year since the Forest was organized. The five fires burned over an area of 5.2 acres, most of which was accounted for by one severe fire which covered a little over 4 acres.

For the second time since fire protection activities were undertaken, no fires occurred during the autumn fire season, all five of the fires burning during the period from January to April, 1937.

The most severe fire of the year occurred on April 13, 1937, in a young pine stand between Pinecrest Road and Cornwallis Road. This fire was caused by a neighbor who set fire to a trash pile on land adjacent to the Forest. The wind whipped the fire out into the Forest, resulting in a burn of over 4 acres. The neighbor co-operated in putting out the fire and later paid all the fire fighting costs.

The causes of the other four fires, which also occurred in the Durham Division, are not known; but due to their location along roads and trails, it is almost certain that careless pedestrians or horseback riders were responsible. Two of these fires were apparently put out by the individuals who started them, or by persons passing soon after they started. This seems to indicate that people using the Forest are becoming more and more appreciative of the desirability and need for fire prevention and that the emphasis put upon fire protection by the Forest Staff is beginning to pay dividends in increased co-operation.

#### FOREST PLANTING

The stimulus given to the planting program in the Forest during the spring of 1936 due to the participation of the Soil Conservation Service was carried over into the winter of 1936-37 when a large additional acreage of retired agricultural land was planted. In this work, as during the previous year, the Forest Staff made plans for the plantings and assisted in supervising the work, while this year the Forest supplied most of the tree seedlings needed. The Soil Conservation Service supplied C.C.C. labor to plant the trees and assisted with supervision. In addition to the areas planted co-operatively with the Soil Conservation Service, several experimental plantations were set out by a Forest crew; and with the assistance of students working under the National Youth Administration, a few of the earlier experimental plantings were filled in or replanted where failures had occurred.

A total of 150.8 acres of new plantations were established during the year, which represents the largest area planted in any one year since the planting program was first initiated in 1931. Approximately 151,000 trees were used in the new plantings and 23,000 for replacements. Of the total number of trees planted, 113,000 were loblolly pine, 31,000 yellow poplar, 12,000 longleaf pine, 11,000 black locust, and 5,000 cypress, with the remainder consisting of small numbers of shortleaf pine, southern white cedar, swamp chestnut oak, and shipmast locust. This year's plantings raise the total area planted in the Forest to date to 657.7 acres; and the total number of trees planted, including refills, to 721,000. The net total of trees planted in new plantations exclusive of refills now stands at approximately 658,000.

As usual, all of the stock, with the exception of the longleaf pine and a small number of shipmast locust root cuttings and rooted cuttings, was purchased from the Division of Forestry of the North Carolina State



Department of Conservation and Development and came from the forest tree nursery maintained by the Forestry Division near Clayton, North Carolina. The longleaf pine stock was supplied by the Soil Conservation Service on a co-operative basis and the shipmast locust cuttings were supplied for an experimental planting by the Resettlement Administration. All of the 1936-37 planting was confined to the Durham Division except for one small area at Hillsboro that needed replanting due to a heavy loss in the original planting caused by a fire that burned over the area in April, 1936.

The planting this year included a few plantations worthy of special mention. About one acre of abandoned meadow was planted to southern white cedar to test experimentally the suitability of this species for planting in the bottomlands in this general locality. This is the first time that southern white cedar has been used in the Forest, and it is hoped that it may prove satisfactory since this species is a tree adapted to several commercial uses.

A new plantation of southern cypress was established in a low, marshy, poorly drained area along the Rigsbee Road covering about 1.5 acres. This raises the total area of cypress plantings to date to approximately 5.75 acres. Where it can be established, cypress becomes an excellent timber tree, and it is also particularly desirable because it prefers the wet marshy sites in which it is difficult to establish other species.

A small number of shipmast locust root cuttings and rooted cuttings were obtained from the Resettlement Administration near Hoffman, North Carolina, and an experimental planting was made to test results with the two types of cuttings. It is necessary to plant cuttings of this species because it does not bear seed, a trait which is very unusual in forest trees. The shipmast locust is a very desirable tree in that it develops a straight, single trunk having all the good characteristics of common black locust, but without its undesirable forking habits.

#### SILVICULTURAL OPERATIONS

The usual practice of thinning pine stands to improve conditions as to composition and growing space in these stands, was continued during the past year. Such cuttings were made on approximately 142 acres, the largest area treated in any one year to date. This brings the total area thinned in the Forest since thinning operations began to 491 acres. The principal product obtained from this operation is cordwood. The area of young forest stands pruned to produce a better grade of timber was also increased. About 32 acres were thus treated to raise the total area of stands that have received their first pruning to a little over 169 acres. In the first pruning operation in a stand it is often advisable to prune only part way up the trunk or stem of the trees, leaving a goodly portion of the branches or crowns to insure maintenance of a good growth rate. A few years later after the trees have grown taller a second operation can safely be made to remove the rest of the branches up to the desired clear height. In some cases where pruning is started when the trees are still quite small, three or even four operations may be needed to attain the

desired 34 feet of clear stem. Several of the stands already pruned are about ready for their second pruning.

The strip clear cutting made last year in the stand of large-sized pine back of Gate 7 was described in last year's report. This year another type of cutting—technically known as clear cutting in patches—was made in another part of the same stand. Five circular plots, varying from 1/5 to 1/3 acre in size were clear cut to study the possibilities of obtaining satisfactory natural reproduction with this method of cutting. Portions of the mature parent stand are left encircling each of the small cleared areas, thus a source of seed is maintained contiguous to the clearing. As the cleared areas are filled with young seedlings the clearings will be gradually expanded until that portion of the old stand is completely replaced with new young growth. Pine seedlings at the rate of several thousand to the acre sprang up on the cut areas, having originated from the very heavy seed crop of 1936. Accurate records are being kept of the effect of various cover conditions such as presence or absence of logging slash and the nearness to uncut timber on the amount and subsequent development of reproduction.

In the strip that was clear cut last year, a co-operative experiment was set up with the Appalachian Forest Experiment Station to study the dispersion and amount of seed fall on the area. Fifty seed traps, each a quarter milacre in size were randomly located, part of them in the open strip and part of them under the remaining parent stand. The seeds caught by each trap were collected once a week, identified, counted, and sent to the Experiment Station for germination tests. Among the interesting data obtained from this study to date are indications that normal seed fall in loblolly pine stands begins late in October, reaches its peak in mid-November, and continues with fluctuating intensity depending on weather conditions until about the first of March. An average of approximately 6 pounds of seed per acre fell during the entire period this year with the heaviest fall being under the old stand and the lightest along the eastern edge of the strip more distant from the old stand. This represents an exceedingly heavy seed crop for any one year. This experiment and its results have been written up and submitted for publication.

An interesting silvicultural operation, technically known as a release cutting, was carried out in a young pine stand covering about 4 acres in the New Hope Creek Division. A considerable number of young yellow poplars were present in this stand, and many of them were being crowded out by the pine. The stand was worked over and the pines removed wherever a poplar of good form and prospect could be freed or released. Owing to its high commercial value when mature, poplar is a more desirable species than the pine, particularly when it is growing on locations or sites favorable to its success. The composition of this stand has thus been improved, and it should have considerably higher value at maturity.

The clear cutting made in an overmature hardwood stand last year in a co-operative wood-procurement operation with the Soil Conservation Service was extended this year to include all of the area covered by that

particular stand. This involved the clearing of an additional 6 acres, part of which was later planted to loblolly pine and another part to yellow poplar. The feasibility of converting such decadent stands to pine or mixed pine-hardwoods by this method is being carefully studied on this area.

#### PUBLIC USE OF THE FOREST

There continues to be a gradual increase in the number of persons who use the Forest for recreational purposes. During the past year nearly 5,900 used the five picnic sites that are now available. The new picnic area developed back of Gate 12 last year became quite popular, and over 1,200 people used this one site. Owing to the large increase in this form of use by the public over the past few years, the job of administering the activity and the cost of maintaining and servicing the areas is becoming somewhat burdensome upon the Forest Staff and the possibility of charging a small, reasonable fee for the use of the picnic sites to help defray the cost of maintenance is under consideration. During the past year, the cost of this service amounted to \$229.30, or approximately 4 cents per person using the area. A charge of 25 cents per party or reservation would materially aid in offsetting this cost though not completely balancing it. Riding on the roads and trails in the Forest also continues gradually to increase in popularity, and approximately 4,900 persons partook of this form of recreation during the year.

#### FOREST RESEARCH

Members of the Forestry Staff have continued their intensive program of research, and during the past year a number of projects were completed and several new ones initiated.

Substantial progress has been made by Professor Coile on a study of soil changes associated with the succession of loblolly pine. This study is concerned essentially with the development of a forest soil from abandoned agricultural land.

A study of the effects of incorporated forest humus on the water-holding capacity and wilting percentage of soils is nearing completion. The data obtained should result in a clearer conception of the effect of forests on soil-plant water relations.

A study has been started on the morphological, chemical, and physical characteristics of forest humus types in the Duke Forest and in the Piedmont region.

Soil samples collected during the summer in the Norris Dam watershed in eastern Tennessee in co-operation with the Tennessee Valley Authority and the Appalachian Forest Experiment Station have been analyzed. A report concerning the characteristics of soils of abandoned land in the region is in progress.

Studies in competition in forest stands have been in progress in the Duke Forest for some time. One phase of this work, a study undertaken by Professor Coile and the Director, on the effects of root competition for soil moisture and nutrients on the establishment and survival of tree

reproduction and lesser vegetation has been finished. A manuscript describing this project and the results obtained is nearing completion.

During the year Professor Maughan completed field work on the red cedar volume study started last year. A table giving the volume of trees in cubic feet was compiled and subsequently published. A second table showing volumes in board feet has been accepted for publication. These tables should be of considerable value to foresters and timberland owners in this locality since these are the first reliable tables for this species to be made available. To date over 130 copies of the cubic table have been requested or sent out.

For the last several years Professor Wolf has been systematically collecting fungi within the Duke Forest. The primary purpose of this work is to determine the relative importance and destructiveness of forest fungi in this area in order that intensive study may be made of those organisms deemed most in need of future investigation. The results of this project are now assembled in manuscript form. In addition to the list of approximately 550 species which it contains, an effort has been made to cite the local forest pathological problems which appear to be most important.

During the past year Professor Wolf completed a study of the life histories of two fungi inhabiting the leaves of sycamore. He also published three papers relating to the diseases of certain forest trees. Four studies in forest pathology are at present being conducted by graduate students. One of these, a study dealing with the decay of sapwood of shortleaf and loblolly pines caused by the fungus *Polyporus abietinus*, is the subject of a doctorate dissertation.

Professor Kramer has investigated the effects of various photo-periods upon the growth of loblolly, shortleaf, slash, and red pines, black locust, red oak, and red maple. The results of this work are being prepared for publication. A study now in progress by a graduate student under Dr. Kramer's direction has to do with the effects of additional illumination on the length of the growing season. Eleven tree species are under observation.

Work on the co-operative study dealing with the effect of removing the organic debris from the surface of the soil by raking and by burning is being continued by members of the Forestry, Botany, and Zoology staffs. During the past year Professor Blomquist mapped the plots, noted the bryophytes and lichens present, and recorded their approximate abundance. The soil animals in these plots have been observed at regular intervals by Professor Pearse.

Professor Oosting is continuing a study of plant succession in the Forest, and Professor Addoms plans to continue her work on sand cultures of certain forest trees through another year.

With the inauguration of course work in wood anatomy and properties and in dendrology by Professor Harrar, a program of research in each of these two fields was initiated. In an effort to obtain information that will be of use in the manufacture of groundwood pulps from southern yellow pines, particularly loblolly pine, a study is being made of the



shearing and crushing strength of springwood and summerwood in several types of wood, that is, from rapid-growing trees, from slow-growing trees, from stock with a high percentage of summerwood, and from stock with a low percentage of summerwood. Comparisons between wood from dominant trees and that from overtopped trees are being made as well as wood from trees growing in dry situations and from trees in wet sites or bottomlands. Incidental to this work, a study is also being made of the mechanical behavior of tension-wood and compression-wood in loblolly pine.

A study of the wood anatomy of 28 species of trees indigenous to the Pacific slope, undertaken jointly by Professor Harrar and Dr. J. E. Lodewick of the Pacific Northwest Forest Experiment Station, culminated in the publication of two papers during the past year.

In the field of dendrology Professor Harrar has begun a study of the characteristics of seedlings of trees native to the Piedmont plateau. The morphological features of the aerial portions of the young trees are being observed as well as the type and nature of their initial root systems. A second project in this field has to do with a critical study of the fruits of eastern and southern oaks.

As has already been mentioned under "Silvicultural Operations," studies of various methods of reproducing and developing forest stands are in progress. The results of these studies will not only be directly useful in the development of proper silvicultural practices for the Duke Forest but will have much wider application in the Piedmont region. An intensive study of some of the earlier plantations is being made by a graduate student.

#### EDUCATIONAL PROGRAM

During the past few years graduate instruction in forestry has, for the most part, been limited to the scientific branches of forestry which are considered appropriate for the Master of Arts and Doctor of Philosophy degrees and for which special opportunities exist at Duke. Advanced work of this nature has been available to graduates of schools of forestry of recognized standing and to college or university graduates holding a Bachelor's degree with their major work in appropriate scientific subjects.

The past year has brought a continued increase in the number of students enrolled in the Graduate School with forestry as their major field of study. Some work in forestry is also being elected by students majoring in other fields. Inquiries are being received from a constantly increasing number of prospective students from all over the United States as well as Canada who are seeking professional training in technical forestry rather than work in the Graduate School for the Master of Arts and Doctor of Philosophy degrees. Since the professional degree of Master of Forestry is not yet available in Duke University, this demand cannot yet be met. Also graduates of our own pre-forestry curriculum in Trinity College who want the professional degree must go elsewhere to get it. A recent study of forestry education in the United States by a committee of the Division of Education of the Society of American

Foresters has shown the need for a high-grade graduate school of forestry in the South, where none now exists.

The work in forestry has been materially strengthened and enlarged by the addition of two men to our Instructional Staff. Dr. Ellwood S. Harrar, formerly on the staff of the College of Forestry, University of Washington, took up his duties as Associate Professor of Forestry in the autumn of 1936 to develop work in wood anatomy and properties and in tree identification and characteristics, and to take charge of the Arboretum. Francis X. Schumacher joined the Forestry Staff in the summer of 1937 as Professor of Forestry to develop work in forest mensuration and in the design of experiments and statistical analysis in forestry. Professor Schumacher, previously a member of the faculty of the Division of Forestry, University of California, came to Duke University from the Washington office of the United States Forest Service, where he was chief of the Division of Forest Measurements in the Branch of Research.

Effective September 1, 1938, Roy B. Thomson, formerly with the Forest Taxation Inquiry of the United States Forest Service and now a member of the staff of the forestry school at Iowa State College, will join our Staff as Associate Professor of Forest Economics to develop work in forest economics and forest policy. With the addition of two more men to the Instructional Staff in forestry it is believed that Duke University will be prepared to offer work for the professional degree of Master of Forestry of such quality and variety as to meet the major requirements for accrediting by the appropriate agency.

#### ARBORETUM

During the past year a number of significant advances have been made in the development of the Arboretum. A large map of the area has been completed, and the boundaries of two sections within its limits, set aside as natural areas, have been established on the map. The locations of all the plantings made to date have also been plotted. Professor Harrar, who is in charge of this project, has devoted considerable time and thought to development of a planting plan by which related groups will be kept together as major units insofar as the soil and moisture requirements of the species will permit. Since the Arboretum will be used extensively as an outdoor laboratory for students in both dendrology and taxonomy, the desirability of such an arrangement immediately becomes apparent.

About 250 small trees, representing 15 species, were set out in the Arboretum in the spring of 1937. This brings the total number of species now planted to 54. In addition to the plantings, small natural groves of three indigenous species were thinned.

Many contacts have been made with private, State, and Federal agencies during the past year for the purpose of obtaining seed and plant material for the Arboretum. The Division of Forestry of the North Carolina Department of Conservation and Development has already supplied a number of species for the Arboretum. Material from this and other sources now in the arboretum nursery will be transferred to the arboretum area as soon as it attains plantable size. Officials of the United States Soil



Conservation Service have agreed to supply up to 25 specimens of each species of woody plant grown in their many nurseries scattered throughout the United States. This means that the Arboretum will receive several thousand small trees representing some 400 to 500 species (native and exotic) from this agency alone. Arrangements have been completed for the obtaining of a considerable quantity of planting stock from the Soil Conservation Service nursery located near Chapel Hill, North Carolina, at the beginning of the 1938 planting season.

Quantities of seed and many small plants representing a variety of species have been received from the Pacific Northwest Forest Experiment Station, the Rocky Mountain Forest and Range Experiment Station, Sequoia National Park, Coeur d'Alene National Forest, the Washington State Arboretum, and several private citizens. A quantity of seed has also been collected in the Duke Forest, mostly for exchange purposes.

Records are being kept of the source of all plant materials used in the Arboretum. Plans are being made to keep a careful check on the behavior of all plants which indicate an adaptability for possible widespread use in this region.

The future of the Duke Arboretum seems assured, and its development will continue as rapidly as funds will permit.

#### PUBLICATIONS

A number of articles of a scientific or technical nature, based upon research done in or upon material from the Duke Forest, were written during the year by members of the Division of Forestry, members of allied departments, or graduate students. Papers by Faculty members published during the year are included in the list of publications appended to the report of the Chairman of the University Council on Research, in this bulletin.

It may be of interest to note that during the year two textbooks appeared, in the writing of which two Staff members collaborated. A *Textbook of Dendrology* was written by Professor Harrar in collaboration with Professor W. M. Harlow of the New York State College of Forestry. A second and extensively revised edition of *Foundations of Silviculture Upon an Ecological Basis* by the late Professor J. W. Toumey of the Yale School of Forestry was prepared by the Director.

#### VISITORS

Professional foresters, timberland owners, and educators continue to show increasing interest in the Duke Forest. Over one hundred professional foresters from nine states and two foreign countries visited the Duke Forest during the year. Professor E. J. Neethling of the Department of Forestry, University of Stellenbosch, Stellenbosch, Union of South Africa, and Dr. Laurence Chalk of the Imperial Forestry Institute, Oxford University, Oxford, England; each spent two days inspecting the forestry work at Duke. During Dr. Chalk's visit arrangements were made for an exchange of wood samples. On a trip south to study forest conditions, Professor Sven Heiberg and twenty-five students from the New York State College of Forestry were conducted through the planta-

tions and various experimental and demonstration areas. Another class of thirty-four students from North Carolina State College, under the leadership of Professor W. D. Miller, also spent a day in the Forest.

#### STAFF ACTIVITIES

Members of the Forestry Staff, in addition to their routine activities, continue to take an active part in the work of outside professional and scientific organizations concerned directly or indirectly with forestry or allied sciences.

Professor Maughan served as Chairman of the Appalachian Section of the Society of American Foresters until December, 1936, when he retired from the chairmanship and became a member of the Executive Committee. In May, 1937, he accepted the responsibilities of editorship of a handbook sponsored by the same organization dealing with all forestry activities in the states of North Carolina, South Carolina, and Tennessee. The work of gathering the information for this guide to forestry activities is now underway.

Mr. Carlton J. Blades succeeded Joseph R. Jester as Forest Assistant, entering on duty September 21, 1936.

During the year the Director served on the committees mentioned in last year's report. In addition as Chairman of the Committee on Forestry Degrees of the Society of American Foresters, the Director spent considerable time on a questionnaire survey of requirements for forestry degrees now being awarded in the United States and in the preparation of a report for the Committee which he presented at the last annual meeting of the Division of Education of the Society of American Foresters.

CLARENCE F. KORSTIAN,  
*Director of the Duke Forest.*

## THE SUMMER SCHOOL

*To the President of the University:*

The Summer School of 1937 showed total enrollments of 2,973, made by 2,536 students (this latter figure being obtained by counting only once students who enrolled for more than one term of six weeks). There were, in addition to these 2,953 registrations, 102 students enrolled in the Schools of Medicine and Nursing, making a total of 3,055 registrations for the summer session, or 2,638 individual students. Table I gives comparative statistics of the summer school enrollment for five-year periods beginning with 1919, with annual statistics for the past four years. It will be observed that the increase in 1937 was in the first and last terms, with a decrease for the middle term. This continues the trend of the last three years and is explained by the fact that the increase of the first term over the last three years has tended to crowd the accommodations available for the middle term. I am, therefore, recommending that the middle term be eliminated for the summer of 1938. I regret to do so, in spite of the extra work of having three periods of registrations and reports, because the middle term has been a real convenience to a number of students.

TABLE I. GROWTH OF SUMMER SCHOOL ENROLLMENT, 1919-37

<i>Year</i>	<i>Duke Campus</i>				<i>Affiliated Schools</i>		<i>Grand Total</i>	<i>Enrollment less Duplications</i>
	<i>I*</i>	<i>II</i>	<i>III</i>	<i>Total</i>	<i>Oriental</i>	<i>Junaluska</i>		
1919.....	88	.....	.....	88	.....	.....	88	88
1924.....	473	.....	247	720	155	.....	875	748
1929.....	.....	.....	447	1,212	.....	250	1,462	1,181
1934.....	1,050	281	528	1,859	.....	128	1,987	1,682
1935.....	1,402	405	522	2,329	.....	163	2,492	2,146
1936.....	1,737	360	620	2,717	.....	193	2,910	2,539
1937.....	1,741	308	699	2,748	.....	205	2,953	2,536

\*I, First Term; II, Midsummer Term; III, Last Term. These totals do not include the 100 students in 1935, the 145 in 1936, and the 102 in 1937, enrolled in Medicine and Nursing.

In spite of the fact that we had only forty-three more registrations last year than the year before, and an actual decrease of three in the total number of individuals enrolled, the year 1937 was in many respects the most satisfactory we have had. There were no last-minute arrangements to be made to care for unexpected registrations, and all the services of the University were therefore well prepared to take care of the students who came. The library circulation reports, for example, showed an increase as compared with preceding years; the recreational

activities were better organized than ever before; and the morale of the student body was in every way superior.

Public school teachers continued to constitute approximately 75 per cent of the total enrollment. The number of registrations by college teachers in the first and last terms of Summer School showed an increase.

TABLE II. REGISTRATION OF PUBLIC SCHOOL TEACHERS IN SUMMER SCHOOL, 1919-37

Year	Duke Campus				Affiliated Schools		Grand Total Teachers Enrolled	Total Registrations excluding Medicine & Nursing
	I	II	III	Total	Oriental	Junaluska		
1919.....	65						65	88
1924.....	339		173	512	155		667	875
1929.....	466		243	709		151	860	1,462
1934.....	779	246	234	1,259		77	1,336	1,987
1935.....	1,022	358	373	1,753		120	1,873	2,492
1936.....	1,333	312	442	2,087		138	2,225	2,910
1937.....	1,269	275	452	1,996		139	2,135	2,953

Table III compares the number of graduate students and undergraduates included in the Summer School enrollment. It will be observed that the graduate students constituted approximately 57 per cent of the total enrollment, and outnumbered the undergraduates each term.

TABLE III. NUMBER OF GRADUATES AND UNDERGRADUATES, MEN AND WOMEN ENROLLED IN SUMMER SCHOOL, 1937

Department	Men			Women			Total			Total Registrations
	I*	II	III	I	II	III	I	II	III	
Graduates.....	410	95	206	566	92	190	976	187	396	1,559
Undergraduates.....	329	17	148	436	104	155	765	121	303	1,189
Total.....	739	112	354	1,002	196	345	1,741	308	699	2,748
Total 1935, for comparison..	590	119	266	812	286	256	1,402	405	522	2,329
Total 1936, for comparison..	700	104	314	1,037	256	306	1,737	360	620	2,717

\*I, First Term; II, Midsummer Term; III, Last Term.

Table IV shows the distribution of undergraduate students among the seventeen departments offering undergraduate work. Education leads the enrollment with a little more than 25 per cent of the total, followed by English with 16 per cent, and history, economics, political science, and sociology. Although there were fifteen more undergraduate students than in 1936, education showed a decrease of forty-seven students, political science a slight decrease, and sociology a slight decrease. English gained twenty, and economics forty-three.

TABLE IV. DISTRIBUTION OF UNDERGRADUATE STUDENTS BY DEPARTMENTS, 1937

<i>Department</i>	<i>I</i>			<i>II</i>			<i>III</i>			<i>Grand Total</i>
	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	
Education.....	29.5	159.0	188.5	4.0	44.5	48.5	7.0	60.0	67.0	304.0
Botany.....	1.5	.....	1.5	.....	.....	.....	.....	.....	.....	1.5
Chemistry.....	35.5	5.0	40.5	1.0	.....	1.0	7.0	4.0	11.0	52.5
Civil Engineering...	31.0	.....	31.0	.....	.....	.....	.....	.....	.....	31.0
Economics.....	53.0	33.5	86.5	1.0	0.5	1.5	21.5	16.5	38.0	126.0
English.....	41.0	76.0	117.0	2.0	17.5	19.5	36.0	24.0	60.0	196.5
Forestry.....	1.0	.....	1.0	.....	.....	.....	1.0	.....	1.0	2.0
French.....	14.0	19.5	33.5	.....	.....	.....	11.0	2.5	13.5	47.0
German.....	18.5	5.5	24.0	.....	.....	.....	8.5	14.5	23.0	37.0
History.....	24.5	35.5	60.0	4.0	32.5	36.5	23.5	11.5	35.0	131.5
Mathematics.....	1.0	.5	1.5	.....	0.5	.5	1.0	.....	1.0	3.0
Physics.....	5.0	7.0	12.0	.....	.....	.....	.....	.....	.....	12.0
Political Science....	25.0	27.5	52.5	.....	.....	.....	17.0	14.0	31.0	83.5
Psychology.....	8.5	5.5	14.0	.5	.....	.5	.....	.....	.....	14.5
Religion.....	6.5	16.5	23.0	4.5	8.5	13.0	5.0	4.0	9.0	45.0
Sociology.....	10.5	40.0	50.5	.....	.....	.....	2.5	1.5	4.0	54.5
Spanish.....	23.0	5.0	28.0	.....	.....	.....	7.0	2.5	9.5	37.5
<i>Total.....</i>	329.	436.	765.	17.	104.	121.	148.	155.	303.	1189.

Table V shows the distribution of graduate students by departments. There were twenty-one more graduate registrations in 1937 than in 1936. Education enrolled as in 1936 approximately 47 per cent of the total. English again stood second with approximately 17 per cent as the preceding summer. History was again third, in spite of losing eighteen students. Mathematics remained fourth and gained fifteen as compared to 1936. Economics gained fifteen but remained fifth. French held its own in sixth place, and sociology with a gain of fourteen displaced political science in seventh place.

Graduate students in 1937 were admitted from 255 colleges and universities in thirty-five states and the District of Columbia. The entire student body represented 335 colleges and junior colleges in thirty-seven states, the District of Columbia, and three foreign countries. The students came from thirty-nine states, besides the District of Columbia, Puerto Rico, and from Canada, China, Cuba, and Japan. The majority of the graduate students were candidates for the Master's degree; but ninety-three registrations the first term, twenty-nine the second, and thirty-eight the third were by students already holding the Master's degrees, as shown in Table VI. This table suggests two apparent facts: first, the manner in which students from our area have attended institutions elsewhere; and second, the gradual extension of the area from which we are drawing advanced students. A study of individual cases bears out both suggestions.



TABLE V. DISTRIBUTION OF GRADUATE STUDENTS BY DEPARTMENTS, 1937

<i>Department</i>	<i>I</i>			<i>II</i>			<i>III</i>			<i>Grand Total</i>
	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	
Education.....	188.0	260.0	448.0	58.0	47.0	105.0	102.0	74.5	176.5	729.5
Botany.....	6.0	6.0	12.0	1.0	.....	1.0	6.0	2.5	8.5	21.5
Chemistry.....	13.0	5.0	18.0	1.0	.....	1.0	1.0	.....	1.0	20.0
Economics.....	35.5	8.0	43.5	8.0	4.0	12.0	11.0	1.5	12.5	68.0
English.....	29.5	145.0	174.5	5.0	16.0	21.0	16.5	58.5	75.0	270.5
French.....	9.5	29.0	38.5	.....	.....	.....	2.5	9.5	12.0	50.5
*German.....	6.0	13.0	19.0	.....	2.0	2.0	.....	.5	.5	21.5
History.....	45.5	47.0	92.5	11.0	14.5	25.5	23.0	15.5	38.5	156.5
Mathematics.....	25.0	18.5	43.5	8.0	3.0	11.0	13.5	9.0	22.5	77.0
Physics.....	15.0	1.0	16.0	.....	.....	.....	1.0	.....	1.0	17.0
Political Science.....	8.5	3.5	12.0	1.0	1.0	2.0	10.5	5.0	15.5	29.5
Psychology.....	9.5	5.5	15.0	.....	.....	.....	6.5	2.0	8.5	23.5
Religion.....	3.5	2.5	5.5	.....	.5	.5	1.0	3.0	4.0	10.0
Sociology.....	10.5	16.5	27.0	.....	.....	.....	7.0	6.0	13.0	40.0
Spanish.....	2.0	1.0	3.0	.....	.....	.....	1.5	1.5	3.0	6.0
Zoology.....	3.0	5.0	8.0	2.0	4.0	6.0	3.0	1.0	4.0	18.0
<i>Total.....</i>	410.	566.	976.	95.	92.	187.	206.	190.	396.	1559.

\*These registrations were largely by graduate students meeting language requirements. The enrollment by graduate students in chemistry also included students taking elementary courses, chiefly pre-medical requirements.

Table VII shows the distribution by classes of Duke students and alumni attending the Summer School of 1937. This table counts as Seniors only those students who could complete graduation requirements by the end of the summer, and counts as Juniors all others who have completed three or more years of work; as Sophomores those who have completed two years; and as Freshmen those who have been one year at Duke. The number of Duke alumni and students who registered this summer showed a marked gain over 1936 and has almost reached the record registration by our alumni and students in 1932, when 655 of them enrolled out of a total of 1,711 registrations in the summer of that year. The increased enrollment of these students probably results from better economic conditions in the spring and summer of 1937 as compared to years immediately preceding.

The distribution of 1937 students by states, as given in Table VIII, indicates gains in Connecticut, the District of Columbia, Georgia, Mississippi, New Jersey, New York, and Virginia. There was a net loss of six in North Carolina, and a heavy loss in Pennsylvania, due perhaps to the economic and political conditions affecting the teachers in that state. There were slight losses in Florida, Maryland, South Carolina, and West Virginia. North Carolina led in enrollment, followed by Pennsylvania, Florida, West Virginia, Georgia, South Carolina, Virginia, New Jersey,



TABLE VI. DISTRIBUTION OF STUDENTS ENROLLED IN DUKE UNIVERSITY SUMMER SCHOOL HOLDING MASTER'S DEGREES, 1937

Name of College Awarding Master's Degree	Men				Women				Grand Total
	I	II	III	Total	I	II	III	Total	
Alabama Polytechnic Institute.....	1						1	1	1
Columbia University.....	1	3	1	5	6	1	2	9	14
Cornell University.....	1				1	1		1	2
Duke University.....	16	2	6	24	11	4	1	16	40
Duquesne University.....					1			1	1
Emory University.....	2		1	3					3
Florida State College for Women.....						1		1	1
George Peabody College.....	3		1	4	4		2	6	10
Harvard University.....	4		2	6				1	7
Heidelberg.....						1		1	1
John B. Stetson University.....					1			1	1
Kansas State Teachers College.....			1	1					1
Louisiana State University.....					1			1	1
Mercer University.....	1		1	2					2
North Carolina State College.....	3		1	4					4
Oklahoma University.....	1			1					1
Pennsylvania State College.....		1		1	1			1	2
Rutgers University.....		2		2	1			1	3
Southwestern University.....					1			1	1
Temple University.....			1	1					1
University of Alabama.....	1	1	1	3					3
University of Arkansas.....					1			1	1
University of California.....	1			1					1
University of Chicago.....	1		1	2					2
University of Detroit.....		1		1					1
University of Florida.....	1			1	1			1	2
University of Georgia.....					2	2	1	5	5
University of Illinois.....						1		1	1
University of Kansas.....	1			1					1
University of Michigan.....	3		1	4					4
University of North Carolina.....	2		2	4					4
University of Pennsylvania.....	1		1	2		1	1	2	4
University of Pittsburgh.....	1	3		4			1	1	5
University of Puerto Rico.....						1		1	1
University of South Carolina.....	1	2		3	2		1	3	6
University of Tennessee.....	2		1	3					3
University of Texas.....					1	1		2	2
University of Virginia.....							1	1	1
University of Wisconsin.....			1	1					1
University of Washington (Seattle).....					1			1	1
West Virginia University.....	4		1	5	3		1	4	9
Wake Forest College.....	1			1					1
Western Reserve University.....	1		1	2					2
Wofford College.....	1			1					1
Woodstock College.....			1	1					1
<i>Total.....</i>	54	15	26	95	39	14	12	65	160

Mississippi, Tennessee, New York, Maryland, Kentucky, and Alabama, in the order named.

Table IX shows the distribution of the 660 students from North Car-

TABLE VII. DISTRIBUTION OF DUKE ALUMNI AND STUDENTS ENROLLED IN THE 1937 SUMMER SCHOOLS

<i>Department</i>	<i>I</i>			<i>II</i>			<i>III</i>			<i>Grand Total</i>
	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	
Masters.....	16	11	27	2	4	6	6	1	7	40
Graduates.....	29	31	60	5	1	6	14	7	21	87
Seniors.....	52	10	62	4	.....	4	29	4	33	99
Juniors.....	100	40	140	6	.....	6	46	14	60	206
Sophomores.....	75	20	95	2	.....	2	20	10	30	127
Freshmen.....	57	11	68	.....	2	2	15	5	20	90
<i>Total.....</i>	329	123	452	19	7	26	130	41	171	649
Totals 1935 for comparison.....	258	108	366	27	25	52	84	38	122	540
Totals 1936 for comparison.....	277	111	388	32	11	43	110	38	148	579

olina. Seventy-eight counties were represented as compared to 75 in 1936, 70 in 1935, and 73 in 1934. Within the past four years 93 of the one hundred counties of North Carolina have been represented in the Summer School.

Table X shows the distribution of public school teachers by states, men and women, and gives the 1935 and 1936 totals for comparison. It will be observed that a part of the large gain in public school teachers in 1936 was lost in 1937. These losses were marked in Alabama and Pennsylvania, with a few slight decreases elsewhere. The Alabama economic situation for teachers has been the worst in this whole area, and the school situation in Pennsylvania was very much disturbed last year. There were marked increases in Georgia, Mississippi, and New Jersey, with slight increases elsewhere.

The Summer School enrollment of 1937 included 325 men and 409 women who had attended at least one preceding School conducted by Duke University. These 734 were largely persons who were working toward degrees from the University. They represent an increase of 114 former students returning, as compared to 1936. They included some teachers who were not working for degrees, but simply came to get such work as attracted their interest. Some of them have been with the Summer School from an early date. There were two here the first term of 1937 who enrolled in the 1919 Summer School, the first the University conducted. There were five from 1920, nine from 1921, five from 1922, seven from 1923, and twenty-four from the Summer School of 1924. There were former students from every Summer School ever held on Duke University campus, including 207 who were first here in the summer of 1936, first term, twenty-six who were here in the second term of 1936 for the first time, and twenty-six who were here for the first time in the third term of 1936. In addition to these 259 who first came in

TABLE VIII. DISTRIBUTION OF REGISTRATION BY STATES AND FOREIGN COUNTRIES, 1937

	<i>I</i>	<i>II</i>	<i>III</i>	<i>Juna-</i> <i>laska</i>	<i>Grand</i> <i>total</i> <i>for</i> <i>1937</i>	<i>Total</i> <i>for</i> <i>1936</i>	<i>Total</i> <i>for</i> <i>1935</i>
Alabama.....	20	5	9	4	38	62	37
Arkansas.....	10		2		12	7	3
California.....						2	
Colorado.....	1				1		
Connecticut.....	11	5	6	1	23	9	11
Delaware.....	3	3	5	1	12	12	9
District of Columbia.....	11	2	7	2	22	12	7
Florida.....	146	26	64	17	253	270	225
Georgia.....	154	16	45	10	225	191	166
Idaho.....	1				1		
Illinois.....	7		3	1	11	8	8
Indiana.....	2				2	4	4
Iowa.....						4	4
Kansas.....	1		1		2		
Kentucky.....	35	5	13	2	55	52	47
Louisiana.....	10	1	2	1	14	13	13
Maine.....	1				1	4	3
Maryland.....	28	20	6	2	56	63	50
Massachusetts.....	10	1	7		18	12	10
Michigan.....	2	1	1		4	2	3
Minnesota.....	1	1			2		1
Mississippi.....	69	9	22	3	103	66	68
Missouri.....	4		2	2	8	6	5
Nebraska.....	2				2	2	2
Nevada.....	1				1		
New Hampshire.....	1		4		5	1	1
New Jersey.....	42	31	36	3	112	81	50
New Mexico.....	1				1		
New York.....	46	7	36	3	92	62	55
North Carolina.....	357	24	160	119	660	666	564
Ohio.....	17	6	5	1	29	26	33
Oklahoma.....	2				3	6	8
Pennsylvania.....	297	99	74	6	476	550	465
Rhode Island.....			1		1	1	2
South Carolina.....	120	12	67	16	215	225	149
Tennessee.....	67	6	16	4	93	100	92
Texas.....	8	1	2		11	6	24
Utah.....							1
Vermont.....	2				2	4	
Virginia.....	74	15	41		130	117	95
West Virginia.....	170	8	59	7	244	255	265
Wisconsin.....	2	2	1		5	1	1
Canada.....	1	1			2	1	
Canal Zone.....							1
China.....	1				1		
Cuba.....	2				2	3	3
Japan.....	1		1		2	1	3
Korea.....						1	
Mexico.....							2
Puerto Rico.....		1			1	2	1
Colombia, South America.....							1
¶Total in Medical School and School of Nursing, not distributed.....					102	145	100
¶Special Research Students, not distributed, 1935.....							28
<i>Total.....</i>	<i>1,741</i>	<i>308</i>	<i>699</i>	<i>205</i>	<i>3,055</i>	<i>3,055</i>	<i>2,620</i>

TABLE IX. DISTRIBUTION OF NORTH CAROLINA REGISTRANTS FOR 1937  
BY COUNTIES

County	I	II	III	Junata	Total	County	I	II	III	Junata	Total
Alamance.....	5	...	3	1	9	Jones.....	1	...	...	...	1
Alexander.....	1	...	1	...	2	Lee.....	...	...	...	1	1
Anson.....	5	...	1	...	6	Lenoir.....	1	...	3	...	4
Ashe.....	1	...	1	2	4	Lincoln.....	2	...	...	...	2
Avery.....	1	...	1	...	2	Martin.....	1	...	...	...	1
Bladen.....	2	...	1	...	3	Mecklenburg.....	10	1	5	3	19
Brunswick.....	1	...	...	...	1	Montgomery.....	2	...	1	...	3
Buncombe.....	10	2	4	2	18	Moore.....	...	...	1	1	2
Cabarrus.....	1	...	2	1	4	Nash.....	2	...	1	1	4
Caldwell.....	5	...	2	...	7	New Hanover.....	3	...	2	...	5
Camden.....	2	...	...	...	2	Northampton.....	...	1	...	...	1
Carteret.....	1	...	...	...	1	Onslow.....	1	...	...	...	1
Caswell.....	...	...	...	1	1	Orange.....	13	...	3	...	16
Catawba.....	7	1	...	...	8	Pasquotank.....	3	...	1	...	4
Chatham.....	...	...	1	...	1	Perquimans.....	1	...	...	...	1
Cleveland.....	2	...	1	1	4	Pender.....	...	1	...	...	1
Columbus.....	1	...	...	...	1	Person.....	4	...	...	...	4
Craven.....	3	2	2	...	7	Pitt.....	4	...	...	2	6
Cumberland.....	4	...	...	1	5	Randolph.....	4	...	2	...	6
Dare.....	1	...	...	...	1	Richmond.....	3	...	3	...	6
Davidson.....	4	...	12	1	17	Robeson.....	4	...	1	...	5
Davie.....	2	...	2	1	5	Rockingham.....	8	2	3	1	14
Duplin.....	...	1	...	...	1	Rowan.....	11	...	4	2	17
Durham.....	116	3	44	9	172	Rutherford.....	8	1	3	2	14
Edgecombe.....	1	...	1	...	2	Sampson.....	1	...	...	...	1
Forsythe.....	4	...	3	2	9	Scotland.....	2	...	...	...	2
Franklin.....	3	...	2	...	5	Stanly.....	2	1	1	...	4
Gaston.....	10	1	6	...	17	Stokes.....	3	...	1	...	4
Gates.....	1	...	...	...	1	Surry.....	1	...	2	...	3
Granville.....	10	1	9	...	20	Transylvania.....	3	...	1	...	4
Greene.....	1	...	...	...	1	Vance.....	1	1	2	...	4
Guilford.....	8	...	1	4	13	Union.....	2	...	...	...	2
Halifax.....	1	...	1	...	2	Wake.....	18	2	10	2	32
Harnett.....	4	...	2	1	7	Warren.....	2	1	1	...	4
Haywood.....	...	1	...	75	76	Watauga.....	2	...	...	...	2
Henderson.....	...	...	...	1	1	Wayne.....	5	...	1	...	6
Iredell.....	5	...	2	...	7	Wilkes.....	1	...	...	...	1
Jackson.....	1	...	...	1	2	Wilson.....	1	...	...	...	1
Johnston.....	2	1	3	...	6	Yancey.....	1	...	...	...	1
						Total.....	357	24	160	119	660

1936 and returned in 1937, there were 274 students here this summer who were here the first term of 1936 and had attended preceding terms of Summer School. Taking no account whatever of twenty-eight students in the middle term of 1936, and 198 in the last term, most of whom attended at least part of the first term of that year, we have a minimum of 523 students who were here in 1936 and returned the first term of 1937. The large majority of these are graduate students working for

TABLE X. DISTRIBUTION OF PUBLIC SCHOOL TEACHERS BY STATES—  
1937 REGISTRATION

State	I			II			III			Grand Total 1937	Total 1936	Total 1935
	Men	Women	Total	Men	Women	Total	Men	Women	Total			
Alabama.....	7	12	19	1	4	5	3	6	9	33	55	27
Arizona.....	1		1							1		
Arkansas.....		1	1							1	3	2
Connecticut.....				4		4				4	1	3
Delaware.....	1	2	3	1	3	4	1	2	3	10	10	6
Dist. of Columbia.....					1	1				1		
Florida.....	39	102	141	4	20	24	30	29	59	224	228	189
Georgia.....	36	87	123	4	11	15	16	20	36	174	159	131
Illinois.....		4	4					1	1	5	6	2
Indiana.....											2	3
Kansas.....	1		1				2		2	3		
Kentucky.....	14	20	34	2	3	5	7	5	12	51	47	35
Louisiana.....		7	7		1	1		2	2	10	10	7
Maryland.....	7	7	14	6	10	16	4		4	34	39	33
Michigan.....		1	1		1	1	1		1	3	2	
Minnesota.....					1	1				1		2
Mississippi.....	17	49	66	1	7	8	9	11	20	94	56	63
Missouri.....	1	1	2					1	1	3	6	3
Nebraska.....		1	1							1		2
New Hampshire.....	1		1	1		1	2		2	4	1	2
New Jersey.....	2	3	5	10	24	34	6	10	16	55	34	10
New Mexico.....	1	1	2							2		
New York.....							1	4	5	5	10	11
North Carolina.....	50	169	219	7	16	23	25	61	86	328	349	280
Ohio.....	5	4	9	1	4	5	2	2	4	18	20	20
Oklahoma.....											6	3
Pennsylvania.....	78	170	248	36	55	91	22	27	49	388	479	405
South Carolina.....	41	60	101	4	7	11	20	30	50	162	163	106
Tennessee.....	13	40	53	1	4	5	2	7	9	67	73	74
Texas.....		6	6		1	1		2	2	9	7	23
Utah.....												1
Virginia.....	20	24	44	8	3	11	8	15	23	78	79	58
West Virginia.....	53	110	163		7	7	23	32	55	225	241	252
Wisconsin.....					1	1		1	1	2	1	
Total.....	388	881	1,269	91	184	275	184	268	452	1,996	2,087	1,753
Teachers in Junaluska Summer School.....										139	138	120
Grand Total....	388	881	1,269	91	184	275	184	268	452	2,135	2,225	1,873

Master's degrees. Assuming that only one-fifth of this minimum number complete degrees each summer, we can readily see the importance of having a large number of our own graduate teachers in residence to provide proper supervision for these students.

The Summer School of 1937 was marked by a marvelous *esprit de corps* not only in the Faculty and student body, as fine as I have ever

seen, but by the same co-operative loyalty in the personnel of the auxiliary services of the University, such as the people in the Treasurer's Office on both campuses, and Mr. Tyree's and Mr. Whitford's offices, the Union, the Alumni Office, and the University Store. The services of the Library, the physical recreation program under Mr. Waite, and the entire social program directed by Miss Wilson and Misses Meredith, McLelland, and Lawrence, were outstandingly effective.

HOLLAND HOLTON,  
*Director of the Summer School.*



## THE UNIVERSITY LIBRARIES

*To the President of the University:*

I have the honor to submit herewith the report for the University Libraries for the academic year 1936-37.

The growth of the Libraries during the year is exhibited in the following table:

<i>Libraries</i>	<i>No. of Vols. June 30, 1936</i>	<i>Accessions 1936-37</i>	<i>No. of Vols. June 30, 1937</i>
General .....	341,968	25,337	367,305
Hospital .....	31,908	1,693	33,601
Law .....	50,633	3,095	53,728
Woman's College ..	27,935	5,023	32,958
<i>Totals</i> .....	452,444	35,148	487,592

The total number of periodicals and newspapers regularly received was 2,910, representing 2,879 titles. Of these, 2,032 were received by the General Library, 339 by the Hospital Library, 272 by the Law Library, and 267 by the Woman's College Library.

Comparisons of libraries on the sole basis of the number of volumes they possess is very largely meaningless. It may be of interest, however, to note that the University collection is now nineteenth in number of volumes of the university libraries of the country.

The total expenditures for books, binding, and periodicals during the period of this report were \$134,247.48. This represents a reduction from the previous year when expenditures totaled \$141,976.78. The distribution of the expenditures among the several Libraries was as follows:

General Library .....	\$103,017.72
Hospital Library .....	8,032.10
Law Library .....	11,377.48
Woman's College Library .....	11,820.18
<i>Total</i> .....	\$134,247.48

These funds were derived from the following sources:

Library fee funds .....	\$ 26,160.95
Budget fund appropriated to the several libraries .....	76,875.63
Income from endowed book funds .....	840.07
Contributions by friends .....	16,552.74
Grant by General Education Board .....	13,045.84
Appropriation of Division of Co-operation in Education and Race Relations .....	772.25
<i>Total</i> .....	\$134,247.48

From this table it will be observed that about 25 per cent of the total book expenditures, or 30 per cent of the expenditures of the General Library were derived from grants and contributions, rather than from regular University income.

## IMPORTANT ADDITIONS

Listing the important additions of the year is always an interesting task. This year an especially long list can be made up, thanks to the grant of the General Education Board, which, directed to be spent in certain specified departments, enabled the Library in these fields to go beyond the routine needs and current additions.

Of files of journals and sets and other important printed collections, the following are especially worthy of mention:

*The Humanities and Social Sciences*

*The Manchester Literary Club Papers*, Vols. 1-51.

*Ainsworth's Magazine*, Vols. 1-15.

*Overland Monthly*, first series, Vols. 1-15; second series, Vols. 9-92.

*Belgravia*, Vols. 1-33.

*Academy and Literature*, Vols. 1-50.

Collection of 3,662 nineteenth-century English plays made by W. F. Hinton.

*The Scottish Review*, Nov., 1882-Oct., 1900. (Lacking several numbers.)

*Tinsley's Magazine*, 1867-92. (Lacking five volumes.)

*Wiener Beiträge z. englischen Philologie*, Hefte 1-54. (Lacking six numbers.)

*Cambridge Facsimiles*, 12 vols. (Complete set.) London, 1872-1902.

*Meliora* (London) *Quarterly Review of Social Science in its Ethical, Economical, Political and Ameliorative Aspects*, 1858-69 (complete).

*Geografia y Estadística de la Republica Mexicana*, 8 vols.

*Volkswirtschaftliche Studien*, Nos. 1-51.

*Wirtschaft und Statistik*, Vols. 1-15 (1921-35).

*Zeitschrift für Nationalökonomie*, Vienna, Vols. 1-5 (1929-34).

C. A. Bougle and H. Moysset (eds.), *Oeuvres Complètes de Pierre-Joseph Proudhon*, 12 vols. (1923-32).

*Great Britain: Royal Commission on the Poor Laws and Reliefs of Distress, Reports of 1909 and Appendix*, Vols. 1-37.

*Man: a Monthly Record of Anthropological Science*, Vols. 1-30.

*Royal Anthropological Institute of Great Britain and Ireland Journal*, Vols. 1-60.

*Vierteljahresschrift für Soziale u. Wirtschaftsgeschichte*, Vols. 1-28; Beihefte 1-30; Register 1-30.

*Anthropos*, 1906-36. Salzburg and Vienna.

*Royal Statistical Society: Journal*, Vols. 1-51.

*Sammlung nationalökonomischer und statistischer Abhandlungen des staatswissenschaftlichen Seminars zu Halle*, Vols. 1-71.

*Revue d'histoire économique et sociale*, Vols. 1-17 (1908-29).

*Bulletin hispanique*, 35 vols. (1899-1934). Bordeaux.

*Parliamentary Records of Austria 1861-1934*. 542 volumes

*Encyclopédie méthodique* (202 vols. with 5,764 plates). Paris, 1782-1832.

*National Industrial Conference Board Bulletin*, 1927-36.

*Hakluyt Society Publications*. (Complete set, except for certain volumes previously acquired.)

*The Century Guild Hobby Horse*, 1884-91 (complete set).  
*Völkischer Beobachter*, 1928-35.

A collection of approximately fifteen hundred volumes dealing with Negro history and various aspects of race relations.

### *The Natural Sciences*

*Botanical Society of Edinburgh Transactions*, Vols. 1-31.

*Botaniska Notiser*, Lund., Vols. 1-87 (1839-1934).

*Botanisk Tidskrift*, Copenhagen, Vols. 1-42 (1866-1934).

*Heraldias Genetiskt Arkiv*, Lund., Vols. 1-20 (1920-34).

Gustave Klein (ed.), *Handbuch der Pflanzenanalyse*, 4 vols. (1931-33). Berlin.

*Proceedings of American Society of Agronomy*, Vols. 1-27 (1907-35).

Philipp Bruch, Wilhelm Philipp Schimper, and Th. Guemmel, *Bryologia Europa*, complete set including Schimper's *Monographs of the Spagnum*. Stuttgart.

*Cytologia*, Vols. 3, 4, and 5. (These were needed to complete the set.)

Johann Hedwig, *Species muscorum frondosorum descripta et tabulis aeneis color*. Illustrated. Ed. Fr. Schwaegrichen, 1801-42. Vols. 1-8 with Supplements 1-4.

*American Society for Horticultural Science Proceedings*, 1926-30, 1932-34.

*The New York Botanical Garden: Contributions*, Nos. 1-336; *Memoirs*, Vols. 1-7.

*Elektrotechnische Zeitschrift*, Vols. 1-56 (1880-1935).

*Arkiv för Matematik, Astronomi och Fysik*, Vols. 1-24 (1903-34).

*Terrestrial Magnetism and Atmospheric Electricity*, Vols. 1-33.

*The Annals of Mathematical Statistics*, Vols. 1 to date and continuation.

*Royal Society of Edinburgh Transactions*, Vols. 40-58 and General Index to Vols. 35-46.

*Royal Dublin Society: Scientific Proceedings*, Vols. 1-18.

*Royal Institution of Great Britain: Proceedings*, Vols. 1-25.

*Journal of Franklin Institute* (complete set except for certain volumes previously acquired).

*Nuovo Cimento*, Series V, VI, VII and VIII (1901-31).

In addition to the journals, sets, and collections and other larger items, there have been acquired many individual works of special value and interest. The list of single volumes is too large to be printed here, but the following call for special mention. They also illustrate the extent to which the Library is being aided by its friends.

John Hall, *Select Observations on English Bodies, or Cures Both Empirical and Historical, performed upon very eminent Persons in desperate Diseases*, London, 1657. This volume by Shakespeare's son-in-law was described in a recent issue of *Library Notes*. It was the gift of those attending the Library dinner in October, 1936.

*Tobacco: Its History Illustrated by the Books and Engravings in the Library of George Arcuts, Jr.*, Vol. I. This magnificent volume, the

gift of Mr. Arents, describes in detail the books printed between 1507 and 1615 now in the famous Arents library.

Oswald Siren, *Chinese Sculpture from the Fifth to the Fourteenth Century* (London, 1937). This beautiful set was the gift of Mr. James A. Thomas, being an important addition to the Thomas Collection.

Racinet, *Le Costume Historique*, 5 vols. (Paris, 1888). This beautiful and monumental set was the gift of Mr. Horace Trumbauer.

Savonarola (1452-1498), *Collected Works* (first edition). (*Expositio in Psalmos . . . ; expositio orationis Dominice . . . ; Eruditorium confessorum . . . ; Triumphus Crucis . . . ; de simplicitate Christiane vite.*) The first edition of certain collected works of the tempestuous reformer. The gift of Professor F. A. G. Cowper.

#### MANUSCRIPT ADDITIONS AND THE FLOWERS COLLECTION

The growth of the manuscript collection of the Library cannot be discussed apart from that of the George Washington Flowers Collection, founded and supported in memory of their father by the sons and daughters of the late Colonel Flowers. The Flowers Collection constitutes not only the bulk of the resources of the Manuscript Department, but also its chief distinction.

During the year 1936-37 the manuscript collection was increased 55,965 items, bringing the total number of pieces to 441,503. Of this increase, all but 848 were secured for the Flowers Collection.

Among these additions are to be found many of great interest and importance. The largest single collection acquired was the papers of James Thomas, Jr., numbering 14,086 pieces. James Thomas was a successful tobacco manufacturer of Richmond, Virginia, prior to the Civil War, and the papers acquired constitute a unique record of the antebellum tobacco industry. Possibly of even greater interest is the correspondence of Thomas Nelson Page, consisting of 9,231 pieces. Although this collection has not been studied, a preliminary examination has revealed it to be very rich in material of interest to this section and to all students of American literature and recent history.

Other additions to the Flowers Collection of special importance or interest include 4,562 manifests, returns, and similar documents of the Port of Savannah from the period 1820-70; the letters and diaries of Benjamin L. C. Wailes of Mississippi for the decade preceding the Civil War; the letters and papers of Samuel S. Biddle of Newbern, North Carolina (1764-1881); the letters and scrapbook of William C. Doub of Forsyth County, North Carolina (1845-57); the invoice book of B. N. Duke of Durham (1892-93); over a thousand letters and papers of R. O. and R. W. Jefferies of Raleigh (1800-1910); 41 letters of John C. Calhoun of South Carolina; 2,719 letters and papers of John R. Kilby of Shenandoah County, Virginia (1843-88); the physician account books of William W. Wilkins of Virginia (1824-66). From the Civil War period the accessions include many letters and papers of General Beauregard, General Hill, William Cullen Bryant, Thomas Jordan, William Pendleton,

Leonidas Polk, A. H. Stephens, and others, as well as numerous military telegrams, special orders, muster rolls, vouchers, and records of the Confederate government.

The Flowers Collection, dealing with the history and culture of the Southern states, is steadily becoming a monumental one. Its resources are being utilized to an increasing degree not only by university students and scholars, but by biographers and the more serious novelists of Southern life as well.

This collection illustrates the fact that many individuals will rally to the support of a worth-while undertaking if others will clearly show the way. In addition to the acquisitions of the Flowers Collection, a total of 848 items, some of them of the first importance, were donated to the manuscript collection during the year. Material of this sort is fragile, easily destroyed and often of little commercial value. Owners of these records of the past are urged to deposit them in the University archives, where they will be permanently preserved and will provide original source material for the study of Southern life.

#### ACQUISITIONS ON FILM

This is a new heading in the reports of the Library. Technical science in the last few years has come to the aid of scholarship and learning in an unexpected way. It is now possible to photograph printed and manuscript materials on 35 or 16 millimeter microfilm, the film being read by means of several types of projectors. The importance of this development to libraries is twofold.

In the first place, it will enable libraries to reduce and to house in a few cubic feet volumes which otherwise would occupy many thousands of feet of shelving. It appears that the increasingly difficult problem of such bulky collections as newspapers may be solved in this way. In the second place, it enables libraries to reproduce volumes which are too rare or too expensive ever to be acquired by normal means.

The ultimate importance of such a development, particularly for the newer libraries like our own, is scarcely to be overestimated. The Duke Library to date has utilized this new development in two important purchases. It has purchased a series of films containing the record of the hearings in connection with the adoption of the various codes of the now invalidated N.I.R.A. The second purchase was an especially interesting one. Fifteen of the larger libraries have joined in having photographed on microfilm all books printed in Great Britain before 1550, in so far as these have been preserved and are available in the British national and university libraries. By this means the entire collection of British incunabulae will be reproduced and made available in the University Library at an average cost of fifty cents per title. A number of other single volumes and portions of newspapers which could not be secured in other ways have been obtained on microfilm also.



THE PROGRAM OF CO-OPERATION WITH THE LIBRARY OF THE  
UNIVERSITY OF NORTH CAROLINA

In the last report a program of co-operation on the part of the Library with the library of the University of North Carolina was described. The practicality and reasonableness of this program have been demonstrated during the year. A daily messenger service operated at less than the cost of postage for books borrowed has been maintained. A joint purchasing program greatly aided by the grant of the General Education Board of New York, already reported, has been carried out. A satisfactory plan for dividing responsibility for collecting state public documents has been worked out. Agreements have been made to avoid duplication of expensive and seldom used materials of several sorts.

The general lines of this program as described in the last annual report have not been modified, though they have been extended. All books which will be in frequent use will be secured by each library in accordance with its own needs. Certain fields in which only one of the two universities is interested, such as library science at the University of North Carolina or forestry at Duke, will be cared for by the library most interested. In fields of common interest, journals, sets, and other expensive works which will be only occasionally consulted but which nevertheless should be available, will not be duplicated in the purchasing of the two libraries. Neither of the libraries makes any commitments which would prevent its growth in the future. The program is simply a commonsense one which contains the promise of building up in this region one of the great national collections of printed knowledge. That it is already serving the two university communities is plainly shown by the great growth in inter-library borrowing during the two and half years the co-operative program has been under way. The figures for these loans are as follows:

<i>Loaned to Duke University by the University of North Carolina</i>		<i>Loaned to the University of North Carolina by Duke University</i>	
	<i>Volumes</i>		<i>Volumes</i>
1930-31 .....	95		60
1931-32 .....	66		40
1932-33 .....	111		65
1933-34 .....	82		74
1934-35 .....	346		190
1935-36 .....	1,186		471
1936-37 .....	1,475		738

As can be seen from the above table, there has been a steady rise over the past three years, and figures so far available for 1937-38 show an even stronger tendency in this direction. It should also be pointed out that the table does not take into account the large number of individuals who go directly to the other library and use and borrow books in person.

GRANT OF STATE PUBLIC DOCUMENTS BY THE  
NORTH CAROLINA LEGISLATURE

State documents are usually secured by the exchange of the publications of one's own state. The University of North Carolina receives by



legislative grant a number of the publications of the state for this purpose, and thus was able to carry out its part of the joint program of collecting the documents of the states of the Union. The Duke Library was not in this position. A bill was prepared, therefore, granting to the Duke Library twenty-five copies of each publication of the State of North Carolina and this was passed at the last session of the legislature. Special thanks are due to Mr. John Sprunt Hill and to Mr. Victor Bryant, who introduced the bill into the two houses of the legislature; Mr. J. H. Separk, who greatly assisted in its passage; and the State of North Carolina for this aid.

#### THE FRIENDS OF DUKE UNIVERSITY LIBRARY

The Friends of Duke University Library has continued its invaluable assistance to the Library. During the year approximately one hundred new members have been added to the list. This brings the membership to slightly less than six hundred individuals, virtually all of whom have aided the Library directly or indirectly. While no effort has been made to secure large contributions, a number of these friends have made notable gifts to the Library. Some of the volumes presented during the year have been noted above.

#### THE LAW LIBRARY

In the Law Library, the year has been marked by a further increase in the use of the legal collection by persons not directly connected with the Law School itself. For this reason, the Staff has continued to adjust its program so as not only to meet the pressing needs of the Law School students and Faculty members, but also those of the larger University community, notably Faculty members in the history, political science, and sociology departments, and students enrolled in their courses, both during the regular academic year and in the summer sessions. There has also been a greater use of the Law Library by both graduate students and by lawyers in Durham and near-by communities.

This ever widening demand for materials, particularly when added to the pressing needs of the Law School itself, has made extremely difficult the allocation of such funds as have been available. However, in spite of budgetary limitations, the collection has been considerably strengthened. Perhaps, from the wider point of view, the greatest present deficiency is in the field of foreign law. It is not only because of the current all University needs, but because of the importance of building for the future, that it is sincerely to be hoped that some adequate provision to acquire materials in this field will be made without further delay.

During the year 4,095 separate pieces have been added to the legal collection. While there have been no outstanding accessions, substantial progress has been made in completing important sets of legal periodicals, in strengthening the collection of American statutory materials, state and local bar association reports, and state attorney general's reports. Forty-two friends have together donated 1,778 books, pamphlets, and periodicals.

## THE HOSPITAL LIBRARY

The Hospital Library contains 33,601 volumes and receives regularly 338 journals.

It has been possible to renew subscriptions to a number of foreign journals which had to be discontinued in 1934, due to the exchange rates, and to purchase the necessary back volumes in order to complete the sets.

Miss Janet Doe's *Bibliography of the Works of Ambroise Paré* (Chicago: University of Chicago Press, 1937) includes the names of the owners of the various editions but omits that of the Duke Hospital Library, which has a copy of the first edition of the collected works: *Les Oeuvres de M. Ambroise Paré* (Paris: Buon, 1575), of which twenty-one copies were located, six being in the United States.

To the card catalog has been added a tray in which are filed, under subjects, cards for review articles, which appear as regular features of several journals. This is done as soon as the issues are received and serves the twofold purpose of making the references available before they can be listed in the *Quarterly Cumulative Index Medicus* and of forming a permanent record of summaries and bibliographies.

Our monthly list of new books now contains, under separate headings, the additions to the Department of Biology and the Department of Chemistry libraries.

The Library is being used more and more as the students realize the practical value of the material in their work on the wards and in the laboratories.

Our appreciation is gladly expressed, for the donation of valuable books and unbound journals, to the Friends of the Duke University Library and to members of the Medical Library Association.

## THE WOMAN'S COLLEGE LIBRARY

The number of volumes added to the Woman's College Library is 5,023, including 282 pamphlets, bringing the number of books and pamphlets to 32,958.

The circulation showed a good increase both inside and outside the Library. The circulation for 1935-36 was 91,916, and for 1936-37, 109,999, showing an increase of 18,083. Since there was little difference in the number of students, the reading interest seems to be improving.

During the year the periodical list was completely revised. When it seemed advisable, duplicates of those in the General Library were discontinued, and suitable new ones were added, and the result seems a very satisfactory one.

The personnel suffered some changes. Miss Clara Rigsbee, Chief of Circulation; Miss Etta Beale Grant, Chief of Cataloging; and Miss Mary Spence, Chief of Reference, resigned. Miss Rigsbee resigned to be married, and Miss Grant and Miss Spence to take other positions. The following were appointed to fill the vacancies: Miss Evelyn Harrison, Chief in Cataloging; Miss Grayson Baldwin, Chief in Circulation; and Mrs. A. L. Hicks, Chief in Reference. Miss Carolyn Martin was appointed

assistant in the Cataloging Department, the position formerly held by Miss Evelyn Harrison. Miss Grayson Baldwin was transferred from the Order Department of the University Library, and Miss Lena Covington was appointed to Miss Baldwin's former position in charge of orders for the Woman's College Library.

The periodicals for the Psychology Department are now housed in the Woman's College Library, a special room having been set aside for the use of the Psychology Department.

New chairs and lamps have brought additional beauty and comfort to the Booklovers' Room.

The Art Association has continued to use the North room for its exhibitions.

The building has been made much more attractive and comfortable by the addition of Venetian blinds in the Reference Room, Periodical Room, Cataloging Room, and the Librarian's Office.

#### STAFF CHANGES

The Library has suffered during the year from an unduly large number of Staff changes. It is a source of gratification that two of the Staff have moved up to important library positions, Mr. Ben Powell to the Librarianship of the University of Missouri and Mr. Jerome K. Wilcox to be Assistant Librarian at the University of California with certain especially important duties. Others have been called to positions of increased responsibility. All told, eleven members of the Staff resigned during the year, seven to accept more remunerative positions. From the standpoint of the Library such extensive changes involve real loss, and must not be allowed to continue.

#### THE IMMEDIATE NEEDS OF THE LIBRARY

The development of the University Library during the last decade has been remarkable, and its further growth and increasing service to the University and to this section are assured. With the support which the University officials have given it and with the continued assistance of its generous friends, we need have no uncertainty or fear about the future of the book collection itself. The immediate needs are three: (1) the development of a well-integrated, capable, and stable Staff; (2) the provision of more stack-space, better facilities for undergraduate study, and a number of library studies for Faculty members; (3) a better program of student service, particularly as regards undergraduates. The first of these seems to be in process of being solved, and the third is a duty resting primarily upon the Librarian and Director of Libraries. With reference to the need of enlarged building space little need be added to the statements made in the last annual report except that, one year later, they are even more true. These facilities will no doubt be provided as soon as is possible. In the meanwhile the Library Staff will continue to meet the situation with all ingenuity and devotion.

HARVIE BRANSCOMB,  
*Director of Libraries.*

## THE UNIVERSITY PRESS

### *To the President of the University:*

During the academic year 1936-37 the University Press expanded its activities in book and periodical publication after several so-called "depression" years in which the program necessarily was curtailed to a certain extent. The accompanying information as to the 1936-37 operations was compiled from data provided by Dr. R. O. Rivera, Executive Secretary of the Press.

During the academic year 1936-37 the Duke University Press published the following books:

*The United States and the Republic of Panama*, by William D. McCain.  
*American Writers, A Series of Papers Contributed to Blackwood's Magazine* by John Neal, edited by Fred Lewis Pattee.

*John Carlisle Kilgo, President of Trinity College, 1894-1910*, by Paul N. Garber.

*The Influence of Barriers upon Strength of Motivation*, by Herbert F. Wright. (This monograph is Number 3 of Volume I of "Contributions to Psychological Theory.")

Approved and in process of publication were the following:

*Axial Bifurcation in Serpents*, by Bert Cunningham.

*The Unextinguished Hearth: Shelley and His Contemporary Critics*, by Newman I. White.

*The Tobacco Kingdom*, by Joseph C. Robert.

*A Gentleman of the Old Natchez Region: Benjamin L. C. W'ailes*, by Charles S. Sydnor.

*Machiavelli's Prince and Its Forerunners*, by Allan H. Gilbert.

*The Conceptual Representation and the Measurement of Psychological Forces*, by Kurt Lewin (Volume I, Number 4, of "Contributions to Psychological Theory").

*Variability in Results from New-Type Achievement Tests*, by E. V. Pullias ("Duke University Research Studies in Education," Number 2).

*Minutes of the Proceedings of the Greenville Ladies' Association in Aid of the Volunteers of the Confederate Army*, edited by James W. Patton ("Historical Papers of the Trinity College Historical Society," Series XXI).

In connection with the celebration of the Centennial of Trinity College, now a part of Duke University, the Press has already issued Paul N. Garber's *John Carlisle Kilgo, President of Trinity College, 1894-1910*. Manuscripts dealing with the lives of Braxton Craven and John Franklin Crowell, especially with the administration of Trinity College during their presidency, were received, and their publication is contemplated in

the near future. A revised *de luxe* edition of William Blackburn's *The Architecture of Duke University* was also projected, to appear later.

The Press inaugurated plans during the year looking to a contest for a prize of \$1,500 to be granted for a scholarly manuscript in the fields of the social, literary, or artistic history of the United States. A committee of members of the Duke Faculty with Professor W. T. Laprade as chairman will select from among all manuscripts submitted the three which in its opinion seem most worthy of the prize, while a committee of three distinguished scholars not connected with Duke University will make the final selection of the prize-winning manuscript. The final judges will be Merle Eugene Curti of Smith College, Ralph Leslie Rusk of Columbia University, and Arthur Meier Schlesinger of Harvard University. The closing date for submitting manuscripts will be October 1, 1938, and the prize will be awarded on March 1, 1939. The Press will publish the winning manuscript.

Before the 1938 Commencement there will come from the Press studies in various fields of research in the nature of Centennial publications, by distinguished scholars of our Faculty and outside. Several of these studies have already been selected.

*The Journal of Parapsychology.* Under the editorship of Professors William McDougall and J. B. Rhine, the first number of *The Journal of Parapsychology* was published in March, 1937. Subsequent numbers have appeared on the quarterly schedule. This periodical was launched at a time when the Duke work in this field under the direction of Professor Rhine was receiving much publicity, and its articles have received wide acclaim and comment. It is printed for the Duke Press by the Seeman Printery of Durham.

*The Southern Association Quarterly.* At the Richmond meeting of the Southern Association of Colleges and Secondary Schools it was decided to publish a quarterly, one of whose issues would contain the proceedings of the meetings of the Association. The Press has been issuing this periodical from its inception for the Association. It is printed for the Duke Press by the Edwards and Broughton Company of Raleigh. With these two the list of quarterlies has reached a total of eight.

Because of the Centennial celebration and natural development, the Duke University Press faces a future of great activity in the field of books as well as that of periodical publications.

HENRY R. DWIRE, *Director.*



## THE UNIVERSITY COUNCIL ON RESEARCH

*To the President of the University:*

The report of the University Council on Research for the period July 1, 1936, and ending June 30, 1937, is submitted herewith. Appended to this is a list of the scholarly publications appearing under the names of the members of the faculties of the different schools of the University during this period. This list continues similar lists appended to your earlier reports.

A number of changes in the membership of the Council have been made during the academic year, 1936-37. The list of members follows: H. B. Branscomb, J. J. Gergen, W. H. Glasson, P. M. Gross, F. M. Hanes, C. B. Hoover, H. C. Horack, Wm. McDougall, A. S. Pearse, R. H. Shryock, D. T. Smith, and N. I. White.

The following officers were elected at a meeting in October, 1936: P. M. Gross, Chairman; C. B. Hoover, Secretary; and A. S. Pearse, D. T. Smith, and N. I. White as members of the Executive Committee. The co-operation of the administrative officers of the University made possible the assignment in the spring of 1936, of a budget of \$20,000 to the Research Council for the year 1936-37. Seventy-three grants were made to members of the Faculty from this budget at a meeting of the Council held in May, 1936.

Several matters bearing on the larger aspects of research and scholarly investigation in the University should be noted. The first of these was the announcement that the system of sabbatical leaves which had been partially suspended during the depression was to be reinstated in 1937-38 on the same basis of operation that was in effect before the depression years. A second factor of importance was the formulation by the Council of a plan under which members of the Faculty who participated in the programs of learned societies would have their traveling expenses to meetings paid. The administrative authorities provided a budget to be used in the year 1937-38 by the Council to put this plan into operation. A third item of interest was the further development by the Council of its plan for providing subsidies in aid of publication. With the co-operation of the Treasurer's Office of the University a Research Publication Fund was set up, the balances in which could be carried over from year to year. To this fund will be added any allotments by the Council from its budgets as well as any funds received by the Council from the sale of publications which it has previously subsidized. It is hoped that under this plan a fund of modest amount may be built up which will serve to meet the needs of Faculty members for subsidies for research and scholarly publications which are not at present adequately provided for by other agencies such as commercial publishing houses and our own Press.

It is with satisfaction that attention is drawn to these matters which should operate to improve and develop our general research program.



There are, however, other aspects of our present situation which should be improved if this program is to be developed to its full extent. They are pointed out here in the hope that the preliminary steps required to bring about these changes may be initiated at an early date. A substantial part of our research in the graduate schools is carried out either directly or indirectly by graduate students. This is necessary if we are to perform one of the important and proper functions of a university—that of training scholars and investigators. Research of this type has, however, certain implications which cannot be overlooked. Of necessity it must be of such scope that it can lie within the capabilities of those who are to carry it out and it must be completed within a period that it is proper for them to devote to such training. In this connection our present situation leaves much to be desired at several points. In the first place the time required of the graduate teaching fellows, assistants, and scholars for teaching assistance and for the multiplicity of graduate courses which they take is so great as to leave far too little time for proper scholarly or investigative work on their thesis projects. Secondly, the amounts of the stipends which we now have are too small to allow us to attract and hold the best types of graduate fellows, scholars, and assistants that are available in the country for graduate work. This situation will only be improved by increasing the value of these appointments and by requiring less time of the appointees for things other than their research and scholarly work. There should also be provision for encouraging those who have already received the Doctor's degree to carry on research at Duke University. Some of the best work appearing from our institutions is often produced by such men.

Finally, it must be realized that the direction and supervision of the research of graduate students makes large demands on the time of those concerned with graduate instruction. This is, of course, quite proper if we are to train research workers and scholars. However, if the time for supervision of research of this sort is added to that required to carry substantial teaching loads and semi-administrative responsibilities, as is true in a number of instances, little or no time is left for research by Faculty members themselves. To this latter type of research we must look for the development of those long-time investigative and scholarly projects of high caliber and real merit on which the ultimate academic reputation of the University will rest. While the research incident to the theses of graduate students can, and should, to some extent be integrated with such long-time projects it cannot in any measure be a substitute for them.

As the list of publications which follows will show, there are among our Faculty members many with worth-while ideas who are interested in scholarship and research. If the full achievement that is potentially possible along these lines is to be realized, those of our Faculty who are capable research workers must be allowed more time and have better supplementary help and facilities than we have made available to them to date.

It is customary in these reports to draw attention to significant scholarly or research contributions by members of the faculties of the Graduate

School of Arts and Sciences and of the undergraduate colleges which have appeared during the year. Mention of contributions by members of the faculties of the professional schools will be found in the reports of the officers of their respective schools. In the field of the humanities we may note a study of the development of a national theme in Castilian literature by Assistant Professor G. Davis, an edition of selections from Rossetti edited by Professor P. F. Baum, two articles on aesthetics by Professor K. Gilbert, the publication of a monograph on the psychology of belief by Professor H. Lundholm, the editing by Assistant Professor C. R. Anderson of an unpublished journal concerning Herman Melville, and a number of studies by Professor W. McDougall in philosophy and psychology.

Among the publications for the year in the sciences and mathematics are two studies by Dr. C. G. Bookhout of the germ cell cycle in the guinea pig, a number of mathematical papers by Assistant Professor L. Carlitz, several investigations of forest soil problems by Assistant Professor T. S. Coile, and several studies by Assistant Professor C. R. Hauser of the structure of organic nitrogen compounds.

Among the contributions by members of the Faculty in the social sciences may be mentioned several sociological studies by Professor H. E. Jensen, a book by Professor R. H. Shryock interpreting some of the social as well as scientific factors in the development of medicine, some studies by Professor C. S. Sydnor on Southern history, and a number of articles and texts by Professor W. A. Brownell bearing on the teaching of arithmetic.

PAUL GROSS, *Chairman of the  
University Council on Research.*

PUBLICATIONS OF THE MEMBERS OF THE FACULTIES OF THE  
GRADUATE SCHOOL OF ARTS AND SCIENCES AND OF THE  
UNDERGRADUATE COLLEGES OF DUKE UNIVERSITY  
IN THE PERIOD OF JULY 1, 1936, TO JUNE 30, 1937

ADAMS, DONALD K. Psychology.

"Bender on Extra-Sensory and Sensory Form Perception," *Journal of Parapsychology*, I, 52-62 (March, 1937).

"Note on Method," *Psychological Review*, XLIV, 212-218 (1937).

ADDOMS, RUTH M. Botany.

"Nutritional Studies on Loblolly Pine," *Plant Physiology*, XII, 199-205 (1937).

ANDERSON, CHARLES R. English.

"Contemporary American Opinions of *Typee* and *Omoo*," *American Literature*, IX, 1-25 (March, 1937).

*Journal of a Cruise to the Pacific Ocean, 1842-1844, in the Frigate United States with Notes on Herman Melville* (Durham: Duke University Press, 1937). vi, 143 pp.

ANDERSON, LEWIS E. Botany.

—(with Henry J. Oosting), "The Vegetation of a Barefaced Cliff in Western North Carolina," *Ecology*, XVIII, 280-292 (April, 1937).

AVILÉS PÉREZ, LUIS. Romance Languages.

"Anotaciones Sobre María Antonia Bolívar," *Boletín de Historia y Antigüedades*, XXIV, 87-103 (Feb., 1937).

"Gabriel Lasso de la Vega (estudio biográfico)," *Universidad* (May, 1937). 45 pp.

"Al Margen de las Tradiciones de Ricardo Palma," *Hispania*, XX, 6-68 (Feb., 1937).

—(with O. K. Lundeborg), *Dos Piecécitas* (two original one-act plays in Spanish edited with vocabulary and notes) (Ann Arbor: Edwards Brothers, 1937). 50 pp.

BAUM, PAUL F. English.

*Dante Gabriel Rossetti, Poems, Ballads and Sonnets. Selections from the Posthumous Poems and from his Translations. "Hand and Soul"* (New York and Garden City: Doubleday, Doran and Company, 1937). lxii, 399 pp.

BERRY, THOMAS SENIOR. Economics.

—(with Miron Burgin), *The Economic Literature of Latin America: A Tentative Bibliography*, compiled by the Staff of the Bureau for Economic Research in Latin America, Harvard University (Vol. II, Mexico, Central America, and the West Indies; Cambridge: Harvard University Press, 1936). xviii, 348 pp.

BERRY, WILLARD. Geology.

"Spores from the Pennington Coal, Rhea County, Tennessee," *The American Midland Naturalist*, XVIII, 155-160 (Jan., 1937).

BIGELOW, LUCIUS A. Chemistry.

—(with William T. Miller, Jr.), "A Study of the Preparation and Quantitative Determination of Elementary Fluorine," *Journal of the American Chemical Society*, LVIII, 1585-1589 (Sept., 1936).

—(with William T. Miller, Jr. and John D. Calfee), "The Action of Elementary Fluorine upon Organic Compounds. III. The Vapor Phase Fluorination of Hexachloroethane," *Journal of the American Chemical Society*, LIX, 198-199 (Jan., 1937).

BLOMQUIST, H. L. Botany.

"Hepaticae of North Carolina," *Bryologist*, XXXIX, 49-67 (July-Aug., 1936).

\*BONNER, L. G. Physics.

—(with R. M. Badger), "The Infrared Spectrum and the Structure of Ozone and Sulfur Dioxide" (letter), *The Physical Review*, XLIII, 305 (Feb., 1933).

—(with W. D. Bonner and F. J. Gurney), "Azeotropic Hydrobromic Acid Solutions at Pressures of 100 mm to 1200 mm," *Journal of the American Chemical Society*, LVIII, 1406-1409 (April, 1936).

"The Vibrational Spectrum of Water Vapor," *The Physical Review*, XLVI, 458-464 (Sept., 1934).

—(with R. M. Badger and P. C. Cross), "An Absorption Tube for the Investigation of Gases in the Photographic Infrared," *Journal of the Optical Society of America*, XXV, 355-356 (1935).

"The Spectrum and the Force Constants of the Ethylene Molecule," *Journal of the American Chemical Society*, LVIII, 34-39 (1936).

—(with R. B. Barnes), "Optical Properties of LiF crystals in the Near Infrared" (abstract), *Physical Review*, XLIX, 648 (April, 1936).

—(with R. B. Barnes), "The Christiansen Filter Effect in the Infrared," *Physical Review*, XLIX, 732-740 (May, 1936).

—(with R. B. Barnes and E. U. Condon), "Vibration Spectra and Molecular Structure. I. General Remarks and a Study of the Spectrum of the OH Group," *Journal of Chemical Physics*, IV, 772-788 (Dec., 1936).

—(with R. B. Barnes), "Filters for the Infrared," *Journal of the Optical Society of America*, XXVI, 428-433 (Dec., 1936).

—(with R. B. Barnes), "The Early History and the Methods of Infrared Spectroscopy," *The American Physics Teacher*, IV, 181-189 (Dec., 1936).

"Vibration Spectra and Molecular Structure. II. The Force Constants of the C-C and C-O Bonds in Organic Molecules," *Journal of Chemical Physics*, V, 293-297 (May, 1937).

—(with R. B. Barnes), "Properties of Crystal Powders in the Far Infrared" (abstract), *Physical Review*, XLIX, 648 (April, 1936).

—(with R. Hofstadter), "The Infrared Absorption Spectrum of Formic Acid Vapor" (abstract), *The Physical Review*, LI, 1017 (June, 1937).

BOOKHOUT, C. G. Zoology.

"The Germ Cell Cycle in the Guinea Pig. I. The Embryonic Development of the Testis," *Zeitschrift für Zellforschung und Mikroskopische Anatomie*, 25. Band, 728-748 (Jan., 1937).

"The Germ Cell Cycle in the Guinea Pig. II. The Postnatal Development of the Testis," *Zeitschrift für Zellforschung und Mikroskopische Anatomie*, 25. Band, 749-763 (Jan., 1937).

—(with A. S. Pearse), *Laboratory Directions for General Zoology* (Durham: Seeman Printery, 1936). 46 pp.

BROWNELL, W. A. Education.

—(with Brantley Watson), "Comparative Worth of Two Diagnostic Techniques in Arithmetic," *Journal of Educational Research*, XXIX, 664-676 (May, 1936).

"Trends in Primary Arithmetic," *Childhood Education*, XIII, 419-421 (May, 1937).

"Some Neglected Criteria for Evaluating Classroom Tests," *Yearbook, National Association of Elementary Principals*, XVI, 485-492 (June, 1937).

\* Signifies members of the Faculty who began their tenure in 1937. A list of their publications since 1925 is included as indicative of their fields of interest.

- (with G. T. Buswell and Lenore John), *Daily Life Arithmetics. Book I. Jolly Numbers (Grade I)* (Boston: Ginn and Company, 1937). 72 pp.
- (with G. T. Buswell and Lenore John), *Daily Life Arithmetics. Beginners' Course, Teachers' Manual (Grade I)* (Boston: Ginn and Company, 1937). 147 pp.
- (with G. T. Buswell and Lenore John), *Daily Life Arithmetics. Books I and II. Jolly Numbers (Grade II)* (Boston: Ginn and Company, 1937). 80 pp. and 80 pp.
- (with G. T. Buswell and Lenore John), *Daily Life Arithmetics. Teachers' Manual for Jolly Numbers, Books I and II* (Boston: Ginn and Company, 1937). 158 pp.
- (with G. T. Buswell and Lenore John), *Daily Life Arithmetics. Book II. Jolly Number Tales (Grade II)* (Boston: Ginn and Company, 1937). 228 pp.

CALFEE, JOHN D. Chemistry.

- (with Lucius A. Bigelow and William T. Miller, Jr.), "The Action of Elementary Fluorine upon Organic Compounds. III. The Vapor Phase Fluorination of Hexachloroethane," *Journal of the American Chemical Society*, LIX, 198-199 (Jan., 1937).

CARLITZ, L. Mathematics.

- "On Certain Equations in Relative-cyclic Fields," *Duke Mathematical Journal*, II, 650-659 (Dec., 1936).
- "On Factorable Polynomials in Several Indeterminates," *Duke Mathematical Journal*, II, 660-670 (Dec., 1936).
- "On Certain Arithmetic Functions of Several Arguments," *Bulletin of the American Mathematical Society*, XLIII, 109-114 (Feb., 1937).
- "Sums of Squares of Polynomials," *Duke Mathematical Journal*, III, 1-7 (March, 1937).
- "An Arithmetic Function," *Bulletin of the American Mathematical Society*, XLIII, 271-276 (April, 1937).
- "Some Formulas for Factorable Polynomials in Several Indeterminates," *Bulletin of the American Mathematical Society*, XLIII, 299-304 (April, 1937).

CLAYTON, WILLIAM J. Chemistry.

- (with W. C. Vosburgh), "Zinc and Zinc Amalgam Electrodes," *Journal of the American Chemical Society*, LVIII, 2093-2096 (Nov., 1936).

\*CLYDE, PAUL H. History.

- International Rivalries in Manchuria, 1689-1922* (Columbus: The Ohio State University Press, 1926). xv, 323 pp.
- Japan's Pacific Mandate* (New York: The Macmillan Company, 1935). xii, 244 pp.

COILE, THEODORE STANLEY. Forestry.

- "The Effect of Rainfall and Temperature on the Annual Radial Growth of Pine in the Southern United States," *Ecological Monographs*, VI, 533-562 (1936).
- "Composition of the Leaf Litter of Forest Trees," *Journal of the Elisha Mitchell Scientific Society*, LII, 162-163 (1936).
- "Distribution of Forest Tree Roots in North Carolina Piedmont Soils," *Journal of Forestry*, XXXV, 247-257 (1937).
- "Forest Soil Problems in the Piedmont Plateau," *Journal of Forestry*, XXXV, 344-348 (1937).
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## THE DEPARTMENT OF PUBLIC RELATIONS AND ALUMNI AFFAIRS

*To the President of the University:*

During the academic year 1936-37 the Department of Public Relations and Alumni Affairs had a period of somewhat more than normal expansion. The lack of adequate office space, which had become acute during the preceding year, was again apparent, but partial reorganization of certain features of the work relieved the situation to some extent. The necessities of an enlarged program naturally led to a slight increase in the personnel of the Department.

During the first half of the fiscal year certain preliminaries incident to the projected celebration in 1939 of the Centennial added considerably to the normal activities of the Department. Beginning with January, 1937, Mr. Alfred S. Brower, formerly Director of the State Division of Purchase and Contract, assumed his duties as Executive Secretary of the Centennial as well as Executive Secretary of the Duke Memorial, and his office assumed direction of the preliminary work. As a former vice-president of the General Alumni Association and for several years a member of the Alumni Council, Mr. Brower was in contact with the institution's alumni work and his advice and assistance in this field especially have been of genuine value, although his office has no direct connection with the Department.

The fiscal year under consideration was the eighth since the creation of the Department. Although much is yet to be accomplished before this part of the University's work is organized and developed as it should be, enough has been done to lead to the belief that the somewhat unusual combination in one department of several types of different, and yet more or less intimately related, activities is logical and the idea susceptible of further expansion. As soon as increased working space can be made available, some problems that are somewhat acute can be solved without great difficulty.

### DIVISION OF PUBLIC RELATIONS

During the year under consideration, the various lines of activity under the full or partial supervision of the Division of Public Relations were as follows:

- a. News Service.
- b. Miscellaneous Publicity.
- c. University Press.
- d. Appointments Office.
- e. Publications Bureau.
- f. Entertainment Service.
- g. University Speakers' Bureau.
- h. University Information Service.
- i. Supplementary Service.



The University News Service, in addition to its other work, handled some preliminary stories on the Centennial, which were widely published. More than two hundred newspapers were served in various ways. The photographic service was increased to a considerable extent during the year, the photographic files now being larger than ever before. Close contacts were established with the Faculty and with various campus groups. Particular attention was given "home-paper" stories about students who had won campus distinctions along various lines. Again attention was paid to achievements of Faculty members in scientific and other lines. The purpose in issuing news releases was to cover only matters of genuine news interest, of real value to the newspapers, and especially those things relating to the inner development of the institution.

In connection with the matter of miscellaneous publicity, further study was given to the possibilities of radio, and information on the subject was secured from certain other institutions. There were three nationwide broadcasts during the year. The requests for Duke photographs and special information along various lines were increasingly numerous.

The contacts of the Appointments Office were expanded, and the calls for its services considerably increased. It became apparent during the year that a full-time appointments office organization would soon be essential in view of the continued growth of the University's placement work.

The Publications Bureau's operations again showed a substantial increase. The publication of the various University bulletins and the mailing of these as well as other matter make this one of the busiest divisions of the Office of Public Relations. If the existing rate of growth continues, additional mailing facilities will be imperative.

More visiting groups were entertained on the campus than in any preceding year, including several academic conventions and conferences of national importance. Among the latter were those of the American Mathematics Society, the American Association of Teachers of Spanish, the American Physical Society and the American Chemical Society, the latter for a dinner and evening program during its meeting at the University of North Carolina. The Sixth Annual North Carolina Press Institute Dinner was again one of the "high spots" of the year. Many smaller gatherings were held, while thousands of visitors, including many high-school students from this and other states, were on the campus from time to time.

The number of requests for University speakers for commencements, conventions, civic club and religious meetings, and other occasions reached a new high point. The willingness of Faculty members to co-operate in responding to such calls, sometimes at considerable inconvenience to themselves, has been decidedly gratifying.

The University Information Service had a busy year. Approximately one hundred thousand calls for some form of information and allied services were handled. The small number of complaints, considering the volume of the information service, was encouraging. On the other hand, the number of commendatory remarks on the service by visitors, some from a considerable distance, was peculiarly gratifying. The publication



of the Weekly Calendar was again an important feature of the Information Service.

As usual, considerable supplementary service was rendered in addition to the lines of work already noted. This included co-operation with Faculty and student groups relative to publicity and other arrangements for meetings and other matters; service rendered in connection with occasions at the University Chapel and Page Auditorium; and other minor forms of co-operation.

(The operations of the Duke University Press for the year 1936-37 are covered in a separate report.)

#### DIVISION OF ALUMNI AFFAIRS

The alumni program for the year 1936-37, considered in its general aspects, was threefold:

- a. To integrate alumni and alumnae representing various periods in the life of the institution, from 1873 to 1937, into one harmonious working whole.
- b. To integrate alumni and alumnae living in widely separated localities into a combined group of loyal sons and daughters of the institution.
- c. To weld together the alumni and alumnae into one general organization, but to formulate a program of activities for the two groups which would take into account the needs and desires of each.

It was encouraging to note during the year substantial progress towards the realization of the first of these goals. It was particularly gratifying, when communications were sent from the Alumni Office to alumni of all periods, to note that some of the most prompt and ready responses came from students of "Old Trinity," as well as some of the most enthusiastic comments on the present progress and achievements of Duke University. At the same time there was abundant evidence in these responses that the young alumni are devoted and enthusiastic and ready to aid in any way possible in furthering the best interests of the University. And members of various classes coming between these two groups demonstrated the same inclination.

Another interesting fact was the way in which Duke alumni and alumnae scattered in every state in the Union, in every county of North Carolina, and in thirty countries outside the United States, showed evidence of maintaining deep and abiding interest in Duke's progress and accomplishments.

Particular attention was given during the year to the matter of developing, along with the general program of alumni activities, plans that would appeal especially to the women. Among other projects undertaken was the inauguration of plans for an Alumnae Week-end, to be held each year at the time of the spring recess when alumnae of various classes and widely separated localities would come together for three days of study, relaxation, and entertainment amid the scenes of their college life. There is every reason to believe that the plan will prove to be notably successful in every way.

During the year under consideration a number of new features were introduced into the alumni program, while existing lines of work were

expanded in a rather satisfactory way. A new high record was made for attendance at the Alumni Homecoming on September 26, as well as the annual Duke Day at Lake Junaluska on July 13, 1936. November was observed for the fifth time as Alumni Month with increased interest and enthusiasm in evidence. Sixty-nine alumni meetings were held in connection with Duke University Day in North Carolina and fifteen other states, several of them by newly organized groups. The Dix Plan of class reunions was adopted and used for the first time at the June, 1937, Commencement. The Alumni Association acted as host to football letter men at the Thanksgiving Day game and certificates were awarded. Three new alumni groups were organized, these being at Dallas, Texas; Newark, New Jersey; and Huntington, West Virginia. Under the auspices of the Class of 1916 a dinner was given in honor of Dr. Eugene C. Brooks, alumnus and former member of the Faculty, and his portrait was presented to the University. Alumnae Homecoming on May 1 attracted a record number of former women students. Again the Durham Alumni Association and the Women's Association of Durham were active and helpful in various ways. The Sons and Daughters of Duke Alumni were entertained at the second annual dinner by the Alumni Association and a picnic was held in honor of the Senior Class of the University. The attendance of alumni at the 1937 Commencement luncheon established a new high record. During the year many visiting alumni registered in the headquarters in the University Union, and the number of those contributing to the Alumni Fund showed a substantial increase. As recorded in the last report, however, the number of such contributors is still considerably less than it should be. Quite a good deal of thought was given to ways and means of stimulating greater interest in such contributions, and good results are expected. The order was completed for three hundred dozen of the Duke commemorative plates of the first edition.

Gratifying interest was shown by quite a number of the local alumni associations during the year. The New York Alumni sponsored a trip of the Men's Glee Club to that city in the course of which there was a nation-wide broadcast over the Columbia Broadcasting System with a notably successful concert at the Hotel Ambassador at which Duke alumni and friends were special guests. The Atlanta Alumni inaugurated a series of informal weekly luncheons. At least twenty local associations went definitely into the matter of organizing all-the-year programs of alumni activities, a course which has been advocated by the Alumni Office for the past several years. Several local and class groups began work on scholarship funds in anticipation of the Centennial.

The following figures show the distribution of Duke University alumni and alumnae as of July 1, 1937:

Alumnae in North Carolina .....	1,758
Alumni in North Carolina .....	<u>4,387</u>
Total Alumnae and Alumni in North Carolina .....	6,145

Alumnae out of State .....	1,182
Alumni out of State .....	3,484
Total Alumnae and Alumni out of State .....	4,666
Alumnae in Foreign Countries .....	24
Alumni in Foreign Countries .....	106
Total Alumnae and Alumni in Foreign Countries .....	130
Total Alumnae .....	2,964
Total Alumni .....	7,977
Total Alumnae and Alumni .....	10,941

Plans were formulated during the year for the organization of several new local alumni associations in North Carolina and other states. A program of intensified alumni activity for the future was outlined, particularly in view of the important part the alumni are to be expected to take in the preliminary work incident to the Centennial and in the celebration itself in 1939.

HENRY R. DWIRE,  
*Director of Public Relations and Alumni Affairs.*

## INDEX

- Activities
  - Religious, 66, 70, 73
  - Student, 65, 73
- Admissions
  - Selective, 15, 22, 55, 66, 72
  - Validity of tests of, 22, 66
- Centennial Celebration, preparations for, 10
- Dean's List, 31
- Death
  - Of Staff, 78
- Distribution of students, 29, 33
- Dormitories, need of, 95
- Engineering, 21
- Enrollment, statistics of, 11, 28, 69, 79, 91, 93, 100, 118
- Fellowships, need of, 80, 94, 103
- Forest, The Duke, 107
  - Activities of Staff, 117
  - Arboretum, 115
  - Educational program, 114
  - Emergency Conservation Work, 107
  - Fire protection, 108
  - Forest planting, 109
  - Forest research, 112
  - National Youth Administration, 108
  - Publications, 116
  - Public use of Forest, 112
  - Silvicultural operations, 110
  - Visitors, 116
- Fraternities
  - Scholarship, 64
  - Sororities, 72
- Graduate Faculty
  - Publications of, 142
  - Research activities of, 140
- Graduate School of Arts and Sciences, The, 79
  - Co-operation with the University of North Carolina, 82
  - Degrees conferred, 79, 83
  - Enrollment, 79
  - Growth, 79
  - History of, 80
  - Fellowships, 79, 80
  - Organization of Graduate School Office, 84
  - Placement, of students, 82
- Guest artists, 22
- Health, student, 64
- Honors work, 24
- Law, The School of, 93
  - Admissions, 93
  - Curriculum, 93
  - Dormitory, need of, 95
  - Enrollment, 93
  - Legal Aid Clinic, 99
  - Library, 98
  - Periodicals, 97
  - Publications of the Faculty, 96
  - Scholarships and Loans, 94
- Libraries, The University, 128
  - General Library, 128
    - Acquisitions on film, 132
    - Additions of the year, 129
    - General Education Board Grant, 129
    - Gifts, 131
    - Grant by the Legislature of North Carolina, 133
    - Growth, 128
    - Needs, 136
    - Other gifts and exchanges, 131
    - Staff, 136
    - Statistics, 128
    - The Friends of the Library, 134
    - The George Washington Flowers Collection, 131
  - Hospital Library, 135
  - Law School Library, 98, 134
  - The Woman's College Library, 135
- Medicine, The School of, 100
  - Enrollment, 100
  - Equipment, new, 105
  - Faculty, additions to, 101
  - Gifts, 105
  - Growth, 100, 106
  - Lecturers, 100
  - Loans, 106
  - Needs, 102
  - Research, 102

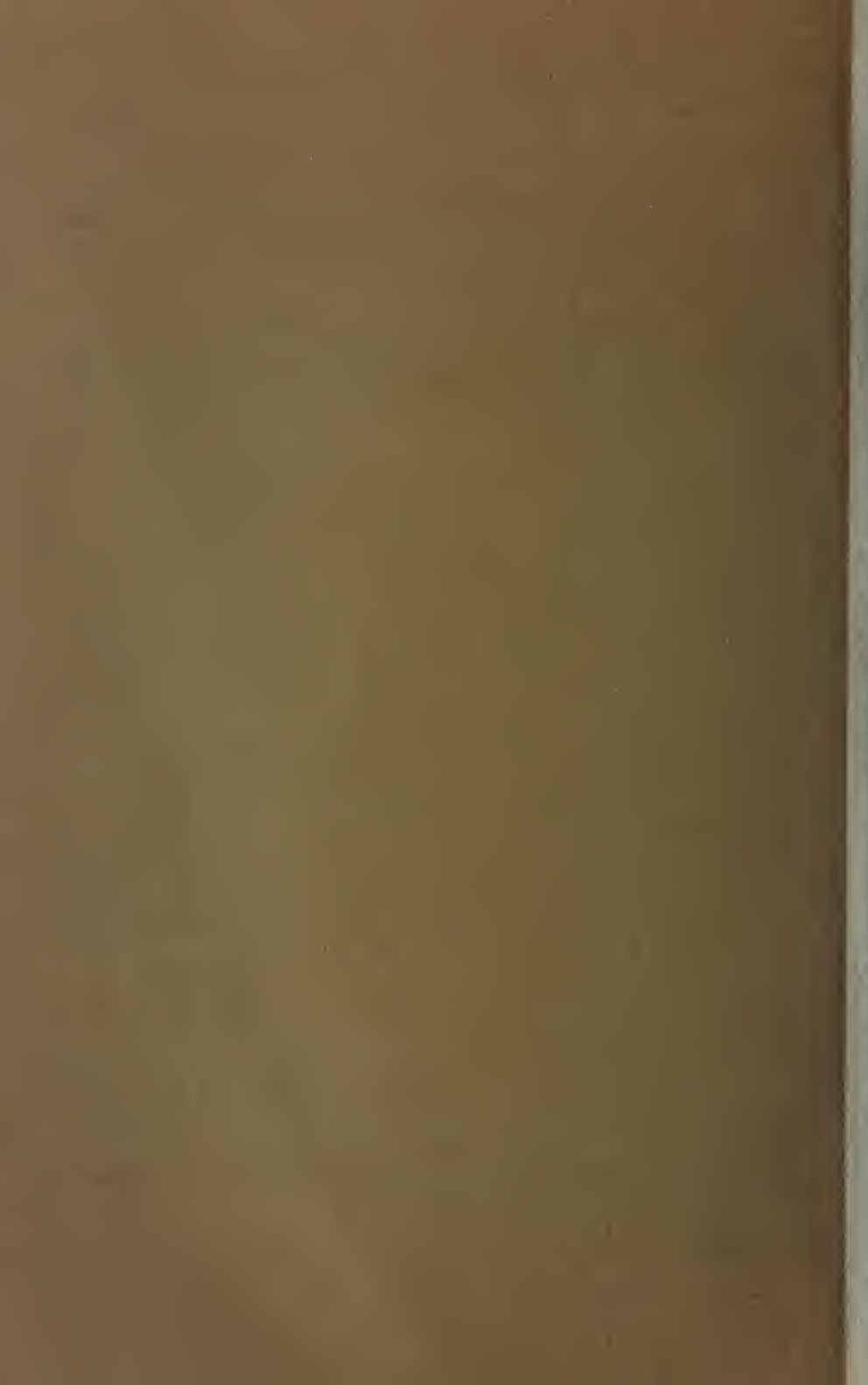
- Student Health Service, 64
- Symposium, 100
- President of Duke University, report of, 7
  - Administration, educational, 12
  - Admission, selective, 15
  - Centennial, preparations for, 10
  - Degrees, honorary, awarding of, 14
  - Engineering, 8
  - English, 9
  - Far East, courses on, 9
  - Forestry, 8
  - Graduate School, 7, 10
  - Gymnasium, 11
  - Institutional co-operation, 18
  - Interdenominational church, 12
  - Library, growth of, 7
  - Loans, 10
  - Museum of art, 11
  - Needs, 10
  - School of Law, 10
  - School of Medicine, 9
  - School of Religion, 8
  - Woman's College, enrollment in, 11
- Press, The University, 137
  - Books, issued by, 137
  - Centennial publications, 137, 138
  - Periodicals, new, issued by, 138
- Public Relations and Alumni Affairs,
  - Department of, 168
- Alumni Affairs, Division of, 170
  - Alumni groups, 170
  - Organizations, 168
- Public Relations, Division of, 168
  - Activities, 168
  - Bureau of Publications, 169
  - Miscellaneous Service, 170
  - Needs, 168, 169
  - Public Information Service, 169
  - Speakers' Bureau, 169
  - University News Service, 169
- Publications by the Faculties, 142
  - Duke Forest, 142
  - Graduate School, 142
  - School of Law, 157
  - School of Medicine, 158
  - School of Religion, 157
  - Undergraduate Colleges, 142
- Religion, The School of, 86
  - Activities, 87, 89
  - Clubs, 87
  - Enrollment, 91
  - Faculty, additions to, 87
  - Junaluska School of Religion, 89
  - Lecturers, 87
  - Library, additions to, 86
  - Publications, 157
- Research, Council on, 139
  - Funds for, 139
  - Program, 139
  - Publications, 142
  - Research, 142
- Summer School, The, 118
  - Enrollment, 118
  - Graduate work, 121
  - Holding power, 123
  - Public school teachers in, 126
- Trinity College, 21
  - Admissions, 1936-37, 55
  - Dean's list, 31
  - Distribution of students, by departments, 33; by groups, 29
  - Engineering, 21
  - Examinations, 24
  - Extracurricular activities, 66
  - Freshmen, 55, 66
  - Geology, 21
  - Guest artists, 22
  - Honors work, 24; departmental, 31; general, 30
  - Instruction in, 1936-37, 32
  - Needs, 21
  - Personal work, 65
  - Student health, 64
  - Student scholarship, 28
  - Undergraduate instruction, 23
- Woman's College, The, 69
  - Academic work, 70
  - Admissions, 72
  - Enrollment, 69
  - Extracurricular activities, 73
  - Health, 65
  - Needs, 78
  - Religious life, 70











VOLUME 10

June, 1938

NUMBER 6

# BULLETIN OF DUKE UNIVERSITY

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*Catalogue Number*



1937-1938

ANNOUNCEMENTS FOR 1938-1939

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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1938

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## TABLE OF CONTENTS

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	PAGE
UNIVERSITY CALENDAR .....	5
HISTORY .....	9
GOVERNMENT .....	14
SABBATICAL LEAVE .....	18
GOVERNING BODIES AND OFFICERS .....	20
Executive Committee of the University .....	20
University Trustees .....	20
Endowment Trustees .....	21
Committees of University Trustees .....	21
OFFICERS OF ADMINISTRATION (Business and Instruction) .....	22
General Administration .....	22
Business Administration .....	22
Public Relations and Alumni Affairs .....	23
Educational Administration .....	23
Instructional Staff .....	24
Instructional Assistants .....	38
University Libraries .....	47
University Chapel .....	50
Physical Education and Student Health .....	50
Social and Musical Activities .....	50
UNDERGRADUATE INSTRUCTION:	
The Colleges .....	54
ADMISSION TO COLLEGE .....	55
REQUIREMENTS FOR DEGREES .....	58
Bachelor of Arts .....	58
General and Special Regulations .....	58
Groups of Studies .....	60
Bachelor of Science .....	67
General and Special Regulations .....	67
Groups of Studies .....	68
Bachelor of Science in Civil, Electrical or Mechanical Engineering ....	70
General Statement and Admission .....	70
Groups of Studies .....	71
COURSES OF INSTRUCTION .....	75
Botany .....	75
Chemistry .....	77
Economics and Business Administration .....	79
Education .....	82
Engineering .....	85
English .....	88
Fine Arts .....	90
Forestry .....	92

	PAGE
Geology .....	92
German Language and Literature .....	93
Greek .....	94
Health and Physical Education .....	96
History .....	97
Latin and Roman Studies .....	100
Law Courses for Academic Students .....	101
Mathematics .....	102
Music .....	104
Philosophy .....	104
Physics .....	106
Political Science .....	108
Psychology .....	109
Religion .....	111
Romance Languages .....	114
Sociology .....	116
Zoology .....	117
GENERAL REGULATIONS .....	120
UNIVERSITY LECTURES .....	127
ALUMNI ORGANIZATIONS .....	128
FEES AND EXPENSES .....	130
SCHOLARSHIPS, LOANS, AND EMPLOYMENT AID .....	136
HONORS AND PRIZES .....	140
STUDENT ORGANIZATIONS AND ACTIVITIES .....	142
THE GRADUATE SCHOOL OF ARTS AND SCIENCES .....	145
Requirements for Admission and Degrees .....	159
Courses of Instruction .....	163
Fees and Expenses .....	193
THE SCHOOL OF FORESTRY .....	298
THE SCHOOL OF LAW .....	195
THE SCHOOL OF MEDICINE .....	213
THE SCHOOL OF NURSING .....	239
THE SCHOOL OF RELIGION .....	249
THE SUMMER SCHOOL, 1938 .....	265
Duke University Summer School .....	275
Junaluska Summer School .....	294
DEGREES AND HONORS CONFERRED (1938) .....	300
ROLL OF STUDENTS (1937-1938) .....	311
Trinity College .....	311
The Woman's College .....	341
The Graduate School of Arts and Sciences .....	356
The School of Law .....	406
The School of Medicine .....	410
The School of Nursing .....	421
The School of Religion .....	422
SUMMARY .....	427
GIFTS AND BEQUESTS .....	429
INDEX .....	431

## UNIVERSITY CALENDAR

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1938

- June 13. Monday, 9:00 A.M.—Registration of students for Summer School, first term.
- June 13. Monday, 2:00 P.M.—Instruction begins for Summer School, first term.
- July 4. Monday—Independence Day: a holiday.
- July 22-23. Friday, Saturday—Final examinations for Summer School, first term.
- July 25. Monday, 9:00 A.M.—Registration of students for Summer School, second term.
- July 25. Monday, 2:00 P.M.—Instruction begins for Summer School, second term.
- Sept. 2-3. Friday, Saturday—Final examinations for Summer School, second term.
- Sept. 15. Thursday, 9:00 A.M.—Dormitories open to Freshmen.
- Sept. 15. Thursday, 8:00 P.M.—Assembly for all entering Freshmen; Freshmen Orientation Program begins.
- Sept. 20. Tuesday—Freshman instruction begins.
- Sept. 20. Tuesday—Registration and matriculation of new students with advanced standing.
- Sept. 21. Wednesday, 11:00 A.M.—Formal opening of the College; registration of matriculated students.
- Sept. 22. Thursday—Instruction for Sophomores, Juniors, and Seniors begins.
- Sept. 22-24. Thursday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-4:00 P.M.; Friday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-5:00 P.M.; Saturday, 9:00 A.M.-1:00 P.M.—Registration of graduate students.
- Nov. 24. Thursday—Thanksgiving Day: a holiday.
- Dec. 10. Saturday—Duke University Day.
- Dec. 20. Tuesday, 1:00 P.M.—Christmas recess begins.

1939

- Jan. 3. Tuesday, 8:00 A.M.—Instruction is resumed.
- Jan. 17. Tuesday.—Mid-year examinations begin.
- Jan. 31. Tuesday—Last day for matriculation for second semester.
- Feb. 1. Wednesday—Second semester begins.

1939

- March 25. Saturday, 1:00 P.M.—Spring vacation begins.
- April 3. Monday, 8:00 A.M.—Instruction is resumed.
- April 15. Saturday—Last day for submitting orations for Wiley Gray Contest.
- April 21, 22, 23. Friday, Saturday, Sunday.—Centennial Celebration.
- April 29. Saturday—Last day for selection of courses for ensuing year.
- May 13. Saturday—Earliest date for beginning of Honors examinations.
- May 19. Friday.—Final examinations begin.
- June 3. Saturday—Commencement opens; Senior Class Day; meeting of the Board of Trustees.
- June 4. Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 5. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

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## HISTORY

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Duke University owes its existence to a charitable trust set up by James B. Duke by an Indenture dated December 11, 1924, and known as the Duke Endowment; to gifts made by him to the University in the succeeding year; and to bequests that came through his will at his death, October 10, 1925. It is built around Trinity College, which was brought to Durham and maintained there largely through the generosity of the Duke family.

Trinity College in its origins goes back to 1838. In that year the citizens of a rural community in the northwest section of Randolph County, North Carolina, established a school with Rev. Brantley York as principal. In 1839 this school was enlarged and named Union Institute. In 1841 it was incorporated by the following enactment of the Legislature of North Carolina:

*An Act to Incorporate Union Institute Academy:\**

Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That Nathan Hunt, Joseph Mendenhall, Joseph Johnson, Lewis Leach, Jabez Leach, Martin W. Leach, and Ahi Robbins, and their successors, are hereby constituted a body corporate and politic to be known and distinguished by the name and style of the Trustees of the Union Institute Academy, and by that name shall have succession, and shall be able and capable in law to have, receive and possess, lands and tenements, goods and chattels, acquired by gift or otherwise, and use and apply the same according to the will of the donor, or dispose of the same when not forbidden by the terms of the gift. They may sue and be sued, plead and be impleaded in any Court of Justice, and shall have power to fill vacancies in their body, which may occur by death, resignation, or otherwise, establish such laws and regulations for the government of said Institution as they may deem necessary, not inconsistent with the laws of this State, and do and perform all such acts and things as are incident to, and usually exercised for, bodies politic, for the accomplishments of the object contemplated.

Ratified the 12th day of January, 1841.

In the year 1842 Braxton Craven became principal of the school. The growth and development of the school caused the Trustees to plan to put it in direct relation to the educational needs of the public schools of the State. Application was made to the Legislature of North Carolina for a new charter, and on January 28, 1851, Union Institute Academy was incorporated as Normal College by the following enactment:

*An Act to Incorporate Union Institute, in Randolph County, a Normal College:\*\**

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That the present Trustees of "Union Institute," to-wit: M. W. Leach, Ahi Robbins, Joseph Johnson, James Leach, and C. M. Hines; together with Rev. B. Craven, of said Institute; Hon. A. H. Sheppard, of Salem; John A. Gilmer, Esq., of Greensboro; Col. Samuel Hargrave, of Lexington; J. L. Blackmer, Esq., of Salisbury; Rev. S. A. Andrews, of Greensboro; Dr. S. G. Coffin, of Jamestown; H. B. Elliott, Esq., of Randolph; J. W. Thomas, Esq., of Davidson; John B. Troy, of Randolph; J. P. H. Russ, of Randolph; Eli Russell, of Montgomery, and Gen. J. M. Leach, of Lexington; and their successors be, and they are hereby declared, a body politic and corporate, to be known and distinguished by the name and style of the "Normal College," and by that name shall have a perpetual succession, and a common seal, and be able and capable in law, of holding lands, tenements and chattels, sufficient for the uses and purposes of said College, and of suing and being sued, and of pleading and being impleaded.

SEC. 2. Be it further enacted, That said Trustees shall have the power to fix the time of holding the annual and other meetings, and to prescribe the manner in which vacancies in their body may be filled, five Trustees being a quorum to do business.

\* Laws of North Carolina, 1840-1843.

\*\* Laws of 1850-1851, chapter 20, page 56.

Sec. 3. Be it further enacted, That the said College shall be under the supervision, management and government of a President and such other persons as said Trustees may appoint; the said President, with the advice of the other persons so appointed, shall from time to time make all needful rules and regulations for the internal government of said College, and fix the number and compensations of teachers to be employed therein, to prescribe the preliminary examinations and the terms and conditions on which pupils shall be received and instructed, and the number of pupils to be received from the respective counties.

Sec. 4. Be it further enacted, That said Trustees shall have power to make such rules, regulations and by-laws, not inconsistent with the Constitution of the United States and of this State as may be necessary for the good government of said College, and the management of the property and funds of the same.

Sec. 5. Be it further enacted, That when any pupil shall have sustained a satisfactory examination on the studies, or course of studies, prescribed by the Faculty and Trustees of said College, such person shall be deemed qualified to teach common schools and may receive a certificate, signed by the President and at least seven Trustees, which certificate shall be sufficient evidence of ability to teach in any of the common schools in this State, without any reexamination of the county committees; and where county certificates are now required before paying out the public funds, the certificate of the Normal College shall answer in lieu thereof.

Sec. 6. Be it further enacted, That the whole College course shall be divided into four classes or degrees, styled first, second, third and fourth, and students shall be ranked accordingly.

Sec. 7. Be it further enacted, That all pupils entering said College shall first sign a declaration, in a book to be kept by the President for that purpose, as follows: "We, the subscribers, hereby declare that it is our intention to devote ourselves to the business of teaching common schools in the State of North Carolina, and that our sole object in resorting to this Normal College is the better to prepare ourselves for that important duty," which declaration it shall be the duty of the President to explain to the pupils before they sign the same.

Ratified 28th January, 1851.

On November 21, 1852, the Legislature ratified amendments to the charter of 1851 including changes and additions as follows:

*An Act to Amend an Act, Entitled "An Act to Incorporate Union Institute, in Randolph County, Normal College":\**

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That J. C. Dobbin, John A. Gilmer, W. H. Washington, A. H. Sheppard, H. B. Elliott, J. M. Leach, Joseph Johnson, S. G. Coffin, A. S. Andrews, Joseph B. Cherry, N. W. Woodfin, B. Craven, James Leach, Calvin Graves, Abi Robbins, John B. Troy, Robert Strange, John W. Thomas, Samuel Hargrave, J. P. H. Russ, M. W. Leach, W. L. Steele, R. M. Saunders, W. B. Lane, G. W. Caldwell, C. H. Wiley, Jabez Leach, John A. Lillington, J. T. Morehead, Thales McDonald, R. C. Puryear, S. P. Hill, Alexander Gray, James M. Garrett, and Edward Ogburn and their successors be, and they are hereby declared, a body politic and corporate, to be known and distinguished by the name and style of "The Trustees of Normal College," and by that name and style shall have a perpetual succession and a common seal, and be able and capable in law of holding lands, tenements and chattels for the uses and purposes of said College; and of suing and being sued, and of pleading and being impleaded.

Sec. 2. Be it further enacted, That the Governor of the State shall be *ex-officio* President of the Board of Trustees, and that the common school superintendent, should such an officer exist, shall be *ex-officio* Secretary of the Board, and that all vacancies in the Board shall be filled by a majority of the Trustees of said College.

Sec. 3. Be it further enacted, That the Trustees shall have power of appointing an Executive Committee, to consist of seven members, which committee shall control the internal regulations of said College, and fix all salaries and emoluments, and of doing all other things necessary for an institution of learning not inconsistent with the laws of this State and of the United States.

Sec. 4. . . . They shall also have power to grant such degrees and marks of honor as are given by Colleges and Universities generally.

Sec. 5. Be it further enacted, That the Secretary of the Board of Trustees shall, within ten days after the meeting of each [Legislature] make a full report of the condition and operations of said Normal College, and the general character of Normal instruction; also, the condition and progress of Normal schools generally, together with all other information deemed important in the education of teachers, giving also the names and residences of all who have been authorized to teach.

Sec. 6. Be it further enacted, That the President and Directors of the literary fund are hereby directed to loan to the Trustees of Normal College, the sum of ten thousand dollars out of any moneys not otherwise appropriated, at six per cent interest, to be paid semi-annually, upon said Trustees giving bond and good security for the same.

Under the amended charter authorizing the institution to confer degrees, two students were graduated on July 28, 1853, with the degree of Bachelor of Arts.

\* Laws of 1852-1853, chapter 88, page 161.

In the year 1853-1854 a larger building was erected by means of money lent by the State of North Carolina under the authority granted in the amended charter. In November, 1856, the Trustees of Normal College authorized President Craven to propose to the North Carolina Conference of the Methodist Episcopal Church, South, that the institution be placed under the ownership and control of that body. The Conference passed the following resolution:

1. That the Conference authorize and request the Board of Trustees of Normal College to raise by donations twenty thousand dollars.
2. That all lands and property belonging to the College be conveyed to the Board of Trustees in trust for the North Carolina Conference.
3. That the Conference fill all vacancies in the Board.
4. That the Conference appoint a visiting committee, which committee shall have equal power with the Board as to the internal regulations and operations of the College.

Within the following two years the Trustees arranged to meet all the conditions stipulated; the North Carolina Conference of the Methodist Episcopal Church, South, in consequence, became invested with the complete ownership and control of the College.

On February 16, 1859, the charter was amended and the name of the institution changed to Trinity College by the following enactment of the Legislature of North Carolina:

*An Act to Amend the Charter of Normal College:\**

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina and it is hereby enacted by the authority of the same, That the corporation established by an act passed in 1852, and known by the style and title of the "Trustees of Normal College," be and the same is hereby changed to Trinity College; and said corporation shall henceforth, by the name and style of Trinity College, hold and use all the authority, privileges, possessions and liabilities it had under the former title and name.

SEC. 2. Be it further enacted, That the estate, real and personal, received and controlled by the Trustees of Trinity College, shall be for the uses and purposes of a literary institution for the North Carolina Conference of the Methodist Episcopal Church, South.

SEC. 3. Be it further enacted, That all vacancies in the Board of Trustees shall be filled by said North Carolina Conference: *Provided, however,* That no person shall be elected a Trustee till he has first been recommended by a majority of the Trustees present at a regular meeting; and the Trustees shall have power to remove any member of their body who may remove beyond the boundaries of the State, or who may refuse or neglect to discharge the duties of a Trustee.

SEC. 4. Be it further enacted, That the Faculty and Trustees shall have the power of conferring such degrees and marks of honor as are conferred by colleges and universities generally; and that five Trustees shall be a quorum to transact business.

SEC. 5. Be it further enacted, That no person shall keep, maintain, or have at Trinity College, or within two miles thereof, any tippling-house establishment, or place for the sale of wine, cordials, spirituous or malt liquors; nor shall any person in the State, without a written permission from the Faculty, sell, or offer to sell, give or deliver to any student of Trinity College, or to any other person, any wine, cordials, spirituous or malt liquors for the purpose of being used, or with a knowledge that the same will be used at said College, or within two miles thereof, by any student.

SEC. 6. Be it further enacted, That no person shall set up, keep or maintain at Trinity College, (or) within two miles thereof, any public billiard table, or other table of any kind at which games of chance or skill, by whatever name called, may be played; and that no person, without written permission from the Faculty, shall within the same limits exhibit any theatrical, sleight-of-hand, natural or artificial curiosities, or any concert, serenade, or performance in music, singing or dancing.

SEC. 7. Be it further enacted, That sections second, fourth and fifth of the charter passed in 1852, are hereby repealed, and that all acts and laws coming within the meaning and purview of this present act are hereby repealed.

Ratified the.....day of.....1859.

During the Civil War the College shared the common fate of Southern colleges. President Craven resigned in 1863, and Professor William T. Ganaway was elected his successor. In October, 1865, Dr. Craven was re-elected to the presidency; however, the work of the College, which had been suspended in April of that year, was not resumed till January, 1866. Dr. Craven remained president of the College till his death, November 7, 1882. Professor William Howell Pegram was then elected chairman of the Faculty. He served till the close of the academic year, June, 1883.

\* Laws of 1858-1859, chapter 85, page 81.

Reverend Marquis L. Wood was elected president in 1883; he resigned in December, 1884, when Professor John F. Heitman was elected chairman of the Faculty. John Franklin Crowell was chosen president of the College in April, 1887.

President Crowell conceived the idea of enlarging the scope of college work and of removing Trinity College to a city. The Board of Trustees on May 7, 1889, passed the following resolutions:

*Resolved* (1). That after mature and prayerful consideration, we believe it best for the interest of Methodism in North Carolina, and the cause of God, to move Trinity College to some prominent center within this State: *Provided*, There shall be tendered to this Board a proper guarantee of a suitable site, with buildings on it, of at least equal value, and as well suited for the uses of the College as those on the present site.

*Resolved* (2). That a committee of five be appointed to carry out the true intent of the above resolution, and report to the next annual meeting of the Board of Trustees.

At a meeting of the Trustees held in Greensboro, N. C., November 30, 1889, the following resolutions were adopted:

*Resolved* (1). That the Board of Trustees of Trinity College accept the offer of the citizens of Raleigh to erect a college building on the site designated, said building to be according to the plans and specifications mentioned in their offer.

*Resolved* (2). That we recommend the N. C. Annual Conference of the M. E. Church, South, to authorize the removal of Trinity College in accordance with the above and former resolutions passed by this Board.

*Resolved* (3). That the grounds and buildings now owned and used at Trinity College be held by the same Board of Trustees to be used as an academical department to prepare students for the college classes.

In accordance with these resolutions, through President Crowell, the Conference was asked at its session in Greensboro, December, 1889, to grant permission to remove the College to the City of Raleigh. The Conference took the following action:

*Resolved*, That the Board of Trustees of Trinity College be and is hereby authorized and directed to move Trinity College to the City of Raleigh, when the citizens of said city shall have erected on the site designated and known as the Boylan lot, the building proposed and agreed to be built by them *Provided*, That before said college is moved, as aforesaid, there shall be made, executed and delivered to said Trustees a good and sufficient deed in fee simple with proper covenants of warranty and seizin, conveying the lot and site designated to said Trustees and their successors in office, for the use and benefit of the North Carolina Conference, Methodist Episcopal Church, South, as it now exists, and for the use and the benefit of such Conferences, as may be hereafter created by the Methodist Episcopal Church, South, out of any territory within the State of North Carolina.

Sometime after this action of the Conference, Mr. Washington Duke and other citizens of Durham, N. C., made a proposition to the Trustees to locate the College in Durham, and this proposition was accepted. On January 21, 1891, the Legislature of North Carolina issued the following charter:

*An Act to Amend the Charter of Trinity College:*

The General Assembly of North Carolina do enact:

SECTION 1. That the Trustees of Trinity College are authorized and empowered to remove the operations and exercises of said College, and to locate the buildings deemed necessary by them for the purpose of the College, at or near the town of Durham, North Carolina. They may, if they so elect, establish and maintain in connection with said College institutions of primary and intermediate education at the present site of the College in Randolph County, and at such other points as they may now or hereafter determine, for the purpose of preparing students for admission to a collegiate course. The management of such auxiliary and subordinate high schools and academies shall be vested in the said Board of Trustees, who are authorized to make by-laws and regulations for them, as well as for the College proper.

SEC. 2. That the Trustees of Trinity College are authorized to receive and hold by gift, devise or purchase, property, real and personal, to be held for the use of said College and its dependent schools or for the use of either or both (as may be designated in the conveyance or will), (to a value not exceeding in the aggregate sum three millions of dollars).

SEC. 3. That the Trustees shall be thirty-six in number, of whom twelve shall be elected by the North Carolina Conference of M. E. Church, South, twelve by the W. N. C. Conference of said church, and twelve by graduates of said College. The term of office of Trustees shall be six years, and they shall be so arranged that four Trustees shall be elected by each Conference and four by the graduates every two years. The Trustees shall regulate by by-laws the manner of election of the Trustees to be chosen by the graduates.



Should there exist a vacancy by death, resignation, or otherwise, of any Trustee, the same shall be filled for the unexpired term by the Board of Trustees. The terms of the Trustees now in office shall expire January first, one thousand eight hundred and ninety-two. At the first election held under this amendment to the Charter, the body of graduates and each of the Conferences shall respectively elect four Trustees for the term of two years; in like manner each of said constituencies shall elect four Trustees for the term of four years, and in like manner each shall elect four Trustees for the term of six years.

In September, 1892, the College opened its first session in the new plant located at Durham. In May, 1894, President Crowell resigned, and on August 1, 1894, Reverend John C. Kilgo was elected his successor. In May, 1897, the Trustees authorized the admission of women as students to all departments of the College.

On account of the fact that the fundamental laws under which the College was managed were contained in an original charter and in several amendments, it was deemed best by the Board of Trustees, in June, 1902, to appoint a committee to make an application to the Legislature for a new charter, which should unify and harmonize the provisions of the existing legislation. On February 28, 1903, the Legislature of North Carolina granted the new charter which is identical with the charter as found on pages 17-18, except that the corporate name of the institution is changed to Duke University and the corporation is given perpetual existence; an amendment enacted by the General Assembly of North Carolina, January 19, 1911, having already stricken out the limitations set in former charters to the amount of property the College might hold.

Having been elected a bishop of the Methodist Episcopal Church, South, President Kilgo resigned in June, 1910. William Preston Few was elected to succeed him and was formally inaugurated November 9, 1910.

On December 29, 1924, the Board of Trustees of Trinity College met to consider the Indenture of Trust executed by Mr. James B. Duke, December 11, 1924. The Board voted unanimously to accept the provisions of the Indenture in so far as it affected Duke University, and authorized the necessary steps to be taken whereby, on December 30, 1924, a charter for the University was granted. (The charter follows closely that of Trinity College and is printed on pp. 17-18.)



## GOVERNMENT

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### 1. THE INDENTURE OF TRUST BY WHICH THE UNIVERSITY WAS CREATED

Among the provisions of Mr. Duke's indenture of trust was an educational institution to be known as Duke University, as respects which the Indenture contains the following provisions, and these provisions apply also to gifts made by Mr. Duke the year before he died and to bequests that came to the University at his death or that have come since:

I. (In Article FOURTH) The Trustees hereunder are hereby authorized and directed to expend as soon as reasonably may be not exceeding Six Million Dollars of the corpus of this trust in establishing at a location to be selected by them within the State of North Carolina an institution of learning to be known as Duke University, for such purpose to acquire such lands and erect and equip thereon such buildings according to such plans as the Trustees may in their judgment deem necessary and adopt and approve for the purpose, to cause to be formed under the laws of such state as the Trustees may select for the purpose a corporation adequately empowered to own and operate such properties under the name of Duke University as an institution of learning according to the true intent hereof, and to convey to such corporation when formed the said lands, buildings and equipment upon such terms and conditions as that such corporation may use the same only for such purposes of such university and upon the same ceasing to be so used then the same shall forthwith revert and belong to the Trustees of this trust as and become a part of the corpus of this trust for all of the purposes thereof.

However, should the name of Trinity College, located at Durham, North Carolina, a body politic and incorporate, within three months from the date hereof (or such further time as the Trustees hereof may allow) be changed to Duke University, then, in lieu of the foregoing provisions of this division "FOURTH" of this Indenture, as a memorial to his father, Washington Duke, who spent his life in Durham and whose gifts, together with those of Benjamin N. Duke, the brother of the party of the first part, and of other members of the Duke family, have so largely contributed toward making possible Trinity College at that place, he directs that the Trustees shall expend of the corpus of this trust as soon as reasonably may be a sum not exceeding Six Million Dollars in expanding and extending said University, acquiring and improving such lands, and erecting, removing, remodeling and equipping such buildings, according to such plans, as the Trustees may adopt and approve for such purpose to the end that said Duke University may eventually include Trinity College as its undergraduate department for men, a School of Religious Training, a School for Training Teachers, a School of Chemistry, a Law School, a Co-ordinate College for Women, a School of Business Administration, a Graduate School of Arts and Sciences, a Medical School and an Engineering School, as and when funds are available.

II. (In Article FIFTH) Thirty-two per cent of said net amount not retained as aforesaid for addition to the corpus of this trust shall be paid to that Duke University for which expenditures of the corpus of the trust shall have been made by the Trustees under the "Fourth" division of this Indenture so long as its name shall be Duke University and it shall not be operated for private gain, to be utilized by its Board of Trustees in defraying its administration and operating expenses, increasing and improving its facilities and equipment, the erection and enlargement of buildings and the

acquisition of additional acreage for it, adding to its endowment, or in such other manner for it as the Board of Trustees of said institution may from time to time deem to be of its best interests, provided that in case such institution shall incur any expense or liability beyond provision already in sight to meet same, or in the judgment of the Trustees under this Indenture be not operated in a manner calculated to achieve the results intended hereby the Trustees under this Indenture may withhold the whole or any part of such percentage from said institution so long as such character of expense or liabilities or operation shall continue, such amounts so withheld to be in whole or in part either accumulated and applied to the purposes of such University in any future year or years, or utilized for the other objects of this Indenture, or added to the corpus of this trust for the purpose of increasing the principal of the trust estate, as the Trustees may determine.

III. (In Article SEVENTH) I have selected Duke University as one of the principal objects of this trust because I recognize that education, when conducted along sane and practical, as opposed to dogmatic and theoretical lines, is next to religion, the greatest civilizing influence. I request that this institution secure for its officers, trustees, and faculty, men of such outstanding character, ability, and vision as will insure its attaining and maintaining a place of real leadership in the educational world, and that great care and discrimination be exercised in admitting as students only those whose previous record shows a character, determination, and application evincing a wholesome and real ambition for life. And I advise that the courses at this institution be arranged, first, with special reference to the training of preachers, teachers, lawyers and physicians, because these are most in the public eye, and by precept and example can do most to uplift mankind, and second, to instruction in chemistry, economics and history, especially the lives of the great of earth, because I believe that such subjects will most help to develop our resources, increase our wisdom and promote human happiness.

IV. (In Article THIRD) As respects any year or years and any purpose or purposes for which this trust is created (except the payments hereinafter directed to be made to Duke University) the Trustees in their uncontrolled discretion may withhold the whole or any part of said incomes, revenues and profits which would otherwise be distributed under the "Fifth" division hereof, and either (1) accumulate the whole or any part of the amount so withheld for expenditures (which the Trustees are hereby authorized to make thereof) for the same purpose in any future year or years, or (2) add the whole or any part of the amounts so withheld to the corpus of the trust, or (3) pay, apply and distribute the whole or any part of said amounts to and for the benefit of any one or more of the other purposes of this trust, or (4) pay, apply and distribute the whole or any part of said amounts to or for the benefit of any such like charitable, religious or educational purpose within the State of North Carolina or the State of South Carolina, or any such like charitable hospital purpose which shall be selected therefor by the affirmative vote of three-fourths of the then Trustees at any meeting of the Trustees called for the purpose, complete authority and discretion in and for such selection and utilization being hereby given the Trustees in the premises.

## 2. THE CHARTER OF THE UNIVERSITY

SECTION 1. That A. P. Tyer, J. H. Southgate, B. N. Duke, G. A. Oglesby, V. Ballard, J. A. Long, J. F. Bruton, J. N. Cole, F. A. Bishop, J. G. Brown, C. W. Toms, J. W. Alspaugh, W. R. Odell, J. A. Gray, F. Stikeleather, Kope Elias, S. B. Turrentine, P. H. Hanes, T. F. Marr, G. W. Flowers, M. A. Smith, R. H. Parker, W. J. Montgomery, F. M. Simmons, O. W. Carr, R. A. Maver, N. M. Jurney, Dred Peacock, B. B. Nicholson, W. G. Bradshaw, E. T. White, T. N. Ivey, J. B. Hurley, R. L. Durham, W. C. Wilson, and their associates and successors shall be, and continue as they have been, a body politic and corporate under the name and style of DUKE UNIVER-

SITY, and under such name and style shall have perpetual existence and are hereby invested with all the property and rights of property which now belong to the said corporation, and said corporation shall henceforth and perpetually, by the name and style of DUKE UNIVERSITY, hold and use all the authority, privileges, and possessions it had or exercised under any former title and name, and be subject to all recognized legal liabilities and obligations now outstanding against said corporation.

SEC. 2. That such corporation is authorized to receive and hold by gift, devise, purchase or otherwise, property, real and personal, to be held for the use of said University and its dependent schools or for the use of either or both (as may be designated in the conveyance or will).

SEC. 3. That the Trustees shall be thirty-six in number, of whom twelve shall be elected by the North Carolina Conference of the M. E. Church, South; twelve by the W. N. C. Conference of the said church; and twelve by the graduates of said University; *Provided, however*, That no person shall be elected a Trustee till he has first been recommended by a majority of the Trustees present at a regular meeting; and the Trustees shall have power to remove any member of their body who may remove beyond the boundary of the State or who may refuse or neglect to discharge the duties of a Trustee. The term of office of Trustees shall be six years, and they shall be so arranged that four Trustees shall be elected by each Conference and four by the graduates every two years. The Trustees shall regulate by by-laws the manner of election of the Trustees to be chosen by the graduates. Should there exist a vacancy by death, resignation, or otherwise of any Trustee, the same shall be filled for the unexpired term by the Board of Trustees. That the present Trustees shall continue and remain in office during the term for which they have been heretofore respectively elected.

SEC. 4. That the said corporation shall be under the supervision, management and government of a president and such other persons as said Trustees may appoint; the said president, with the advice of the other persons so appointed, shall from time to time make all needful rules and regulations for the internal government of said University and prescribe the preliminary examinations, and the terms and conditions on which pupils shall be received and instructed.

SEC. 5. That said Trustees shall have power to make such rules, regulations, and by-laws not inconsistent with the Constitution of the United States and of this State, as may be necessary for the good government of said University and the management of the property and funds of the same.

SEC. 6. That the Trustees shall have power to fix the time of holding their annual and other meetings, to elect a president and professors for said University, to appoint an executive committee to consist of seven members, which committee shall control the internal regulations of said University and fix all salaries and emoluments, and to do all other things necessary for an institution of learning not inconsistent with the laws of this State and of the United States.

SEC. 7. That the Faculty and Trustees shall have the power of conferring such degrees and marks of honor as are conferred by colleges and universities generally; and that five Trustees shall be a quorum to transact business.

SEC. 8. That all laws and parts of laws or of the charter heretofore granted which are in conflict with this act are hereby repealed.

SEC. 9. That this act shall be in force from and after its ratification and acceptance by the Board of Trustees.

### 3. THE BY-LAWS OF THE UNIVERSITY

1. AIMS OF THE UNIVERSITY. The aims of Duke University are to assert a faith in the eternal union of knowledge and religion set forth in the teachings and character of Jesus Christ, the son of God; to advance learning in all lines of truth; to defend scholarship against all false notions and

ideals; to develop a Christian love of freedom and truth; to promote a sincere spirit of tolerance; to discourage all partisan and sectarian strife; and to render the largest permanent service to the individual, the state, the nation, and the church. Unto these ends shall the affairs of this University always be administered.

2. **THE UNIVERSITY TRUSTEES.** The Alumni Trustees, nominated by the Board as provided for in the charter, are elected by the Alumni Association. The officers of the Board are chairman, vice-chairman, and recording secretary. The chairman calls to order and presides at all meetings of the Board, calls extraordinary meetings when, in his judgment, such meetings may be necessary, and represents the Trustees at public meetings of the University. He is ex-officio member of the Executive Committee. In the absence of the chairman the vice-chairman calls to order and presides over meetings of the Board, but does not perform any of the other duties of the chairman unless ordered to do so by the Board of the Executive Committee. The recording secretary records the minutes of all the meetings, does the correspondence, and is the custodian of the records and other documents that may belong to the Board.

3. **THE EXECUTIVE COMMITTEE.** The Executive Committee consists of seven members, three of them from the University Trustees, including the chairman ex-officio, three from the Endowment Trustees, and the President of the University ex-officio. It performs the duties set out for it in the charter—namely, controls the internal regulations of the University and fixes all salaries and emoluments. The Committee is furthermore authorized to appoint officers and teachers of the University subject to the approval of the University Trustees. The Committee is elected by the University Trustees, three of them on nomination of the Endowment Trustees, and the Committee elects its own officers. It meets once a month and oftener when necessary. The Committee through its chairman makes annually a report to the University Trustees.

4. **OFFICERS OF THE UNIVERSITY.** The officers of the University are a president, three vice-presidents, a treasurer, a dean of the University, and such other deans as may be needed, a recording dean or registrar, and a secretary who is also secretary of the faculty. Whenever it may seem wise more than one of these offices may be held by one man.

*President.* The President of the University calls, and presides at, all the meetings of the Faculties, sees that the laws and regulations of the Executive Committee and the Trustees affecting the administration and work of the University are carried out, appoints all committees of the Faculties and has direction of the discipline and work of the University. He has the authority to veto any action of the Faculties, when, in his judgment, such action is not in harmony with the aims and laws of the University, or when he may deem such action as unwise. However, in every instance he shall submit to the Faculty in writing his reasons for setting aside their action, and the secretary of the Faculty shall record his reasons in the record book of the Faculty. The President makes an annual report to the Board of the work, conditions, and needs of the University, and of other matters that may be of concern to it or to the cause of higher education. He nominates all members of the Faculties, and represents them at all public meetings of the University. He is an ex-officio member of the Executive Committee; and acts as the medium of communication between the University Trustees and the Endowment Trustees.

*Vice-Presidents.* The three Vice-Presidents of the University have supervision of the work of the University in the divisions of (a) business, (b) education, and (c) student life. In the absence of the President, Vice-Presidents in the order of official seniority may perform such duties of the President as may demand immediate attention.

*Treasurer.* The Vice-President in the Business Division and Treasurer has the custody of all the property of the University; that is, he has the



primary responsibility for all collections and disbursements, for all securities and financial records, and for the care of the entire physical plant. He is required to make monthly reports to the Executive Committee and annual reports to the Trustees concerning his accounts and the property in his charge. It shall be the duty of the Treasurer to nominate to the Executive Committee an assistant treasurer and other assistants in sufficient number to do well the duties of his office. All officers entrusted with property belonging to the University are required to keep records of the same, and these records are at all times subject to the inspection of the Treasurer. The Treasurer and his assistants shall be required to give bond, joint or several, in an amount not less than \$50,000 for the faithful performance of their duties.

5. **FACULTIES.** The General Faculty of the University is composed of professors, associate professors, and assistant professors who have been elected to membership in the Faculty. Concerning questions that do not lie exclusively in the field of any one Faculty and questions of University educational policy this Faculty has the right to enact such regulations as it may deem necessary to carry on the instruction, advance the standard of work, and otherwise develop the scholarly aims of the University. The General Faculty recommends to the University Trustees such persons as it deems fit to receive academic degrees or other marks of academic distinction. The Colleges, and the graduate and professional schools have their own faculties, each with its dean and other appropriate officers elected by the Executive Committee with the approval of the University Trustees, and each is authorized to perform any educational functions that lie in its field. Actions of all the Faculties are subject to the approval of the President of the University.

6. **ACADEMIC YEAR.** The academic year begins on the morning of the Wednesday following September 15. The annual Commencement comes in the week including the first Sunday in June. The Christmas recess begins at 1:00 P.M., December 20 (or December 19 if December 20 falls on Sunday), and ends at 8:00 A.M., January 3 (or January 4 if January 3 falls on Sunday). The spring recess begins at 1:00 P.M. of the Saturday in March nearest to March 25, and ends at 8:00 A.M. of Monday nine days later. Thanksgiving Day is a holiday.

7. **TENURE OF OFFICE.** Teachers of all ranks are subject to removal by the Executive Committee, with the approval of the University Trustees, for misconduct or neglect of duty. Teachers may be elected for terms of one, two, three or four years; or teachers with the rank of professor may be elected without time-limit. Administrative officers are usually elected without time-limit, but the Executive Committee, with the approval of the University Trustees, may remove any officer of the University whenever, in their opinion, he is not properly performing the duties of his office.

8. The by-laws may be amended at any regular meeting of the University Trustees by the affirmative vote of two-thirds of the full membership of the Board, provided that the proposed amendment is submitted through the Secretary of the Board to the members at least twenty days before the meeting.

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### SABBATICAL LEAVE

Sabbatical leave of absence for members of the General Faculty is granted under regulations adopted by the Executive Committee of the Trustees on March 28, 1923, revised in 1928, partly in abeyance in the year 1933-34 and the succeeding three years, and restored in the year 1937-38. The conditions on which sabbatical leave of absence is granted are set forth below.

1. Every member of the General Faculty (composed of professors, associate professors, and assistant professors) is eligible for sabbatical leave after six years in the service of the University. Such leave may be taken for a full year at half salary or a half year at full salary.

2. In order to obtain a sabbatical leave written request for such leave must be filed with the President of the University by December first of the academic year preceding the one in which the leave is to take effect.

3. In exceptional cases it should develop that the granting of leave to an applicant during the year for which application is made would raise very serious difficulties detrimental to the best interests of the applicant's department or school, or to the interests of the institution as a whole; or because of questions concerning the applicant's period of service prior to the leave, the President shall appoint a committee which shall have power to decide the question of granting the sabbatical leave for the particular year under consideration. This committee shall consist of five members as follows: two members of the general faculty appointed yearly by the President, the Treasurer of the University, the Dean of the school or college of which the applicant is a member, the chairman of the applicant's department, or should no such chairman exist another member of the applicant's department.

4. If this committee should decide against the granting of a sabbatical leave for the year for which the applicant applied, the applicant would be eligible for sabbatical leave the following year or any year thereafter upon making application in due form as above.

5. After September 1, 1928, if a member of the faculty on becoming eligible for sabbatical leave does not for some special reason apply for such leave, he may count the additional years of service prior to his leave toward the six years of service necessary before he can apply for a subsequent leave. If in an exceptional case an applicant for personal reasons applies for a sabbatical leave to be effective in advance of his regular year and such leave is granted, he shall not be eligible for a subsequent leave until he has served six years plus the number of years by which this leave is advanced.

6. On recommendation of the committee after leave of absence has been granted it may be postponed for urgent reasons and under conditions to be determined by the committee.

7. All those cases which have occurred in the past or which may occur in the future in which leave of absence is granted under conditions where the absentee receives full pay for a half year or half pay or more for a full year's leave of absence shall be considered as regular sabbatical leave under these regulations.

8. These revised regulations became effective as of September 1, 1928, and sabbatical leaves under such regulations began with the academic year 1929-30. The regulations were partly in abeyance in 1933-34, 1934-35, 1935-36, and 1936-37. The restoration of the regulations begins with the academic year 1937-38. The four years, 1933-34, 1934-35, 1935-36, and 1936-37, may not count toward the six years of service necessary before application can be made for leave of absence. In all cases in which special arrangements have been made for the granting of sabbatical leave (as described in condition No. 7) during the period of partial abeyance of the plan, the next six years of service shall be counted as beginning with the academic year 1937-38. All other members of the General Faculty who apply for sabbatical leave may count the years of service they had to their credit at the beginning of the academic year 1933-34.



## GOVERNING BODIES AND OFFICERS

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### EXECUTIVE COMMITTEE OF THE UNIVERSITY

(Consisting of three members from the University Trustees, three from the Endowment Trustees, and the President of the University.)

	Year of Election		
J. F. BRUTON, Chairman.....	1918.....	Wilson,	N. C.
G. G. ALLEN.....	1923.....	New York,	N. Y.
W. P. FEW.....	1910.....	Durham,	N. C.
M. E. NEWSOM.....	1917.....	Durham,	N. C.
W. N. REYNOLDS.....	1933.....	Winston-Salem,	N. C.
J. H. SEARK.....	1929.....	Gastonia,	N. C.
W. R. PERKINS.....	1937.....	New York,	N. Y.
R. L. FLOWERS, Recording Secretary.....	1923.....	Durham,	N. C.

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### UNIVERSITY TRUSTEES

#### Term Expires December 31, 1939

M. E. NEWSOM.....	1917.....	Durham,	N. C.
*W. R. ODELL.....	1888.....	Concord,	N. C.
J. A. THOMAS.....	1936.....	White Plains,	N. Y.
W. W. PEELE.....	1921.....	Charlotte,	N. C.
W. R. PERKINS.....	1924.....	New York,	N. Y.
D. C. ROPER.....	1929.....	Washington,	D. C.
F. M. WEAVER.....	1909.....	Asheville,	N. C.
B. S. WOMBLE.....	1915.....	Winston-Salem,	N. C.

#### FROM THE ALUMNI

H. R. DWIRE, Ass't. Rec. Secretary.....	1931.....	Durham,	N. C.
R. A. MAYER.....	1897.....	Charlotte,	N. C.
F. M. SIMMONS.....	1892.....	New Bern,	N. C.
W. A. STANBURY.....	1933.....	Asheville,	N. C.

#### Term Expires December 31, 1941

J. F. BRUTON, Chairman.....	1900.....	Wilson,	N. C.
T. F. MARR, Vice-Chairman.....	1900.....	Brevard,	N. C.
D. S. ELIAS.....	1929.....	Asheville,	N. C.
P. H. HANES.....	1912.....	Winston-Salem,	N. C.
J. L. HORNE, JR.....	1934.....	Rocky Mount,	N. C.
J. A. LONG.....	1915.....	Roxboro,	N. C.
S. B. TURRENTINE.....	1893.....	Greensboro,	N. C.
EARLE W. WEBB.....	1933.....	New York,	N. Y.

#### FROM THE ALUMNI

S. S. ALDERMAN.....	1934.....	Washington,	D. C.
W. N. REYNOLDS.....	1927.....	Winston-Salem,	N. C.
J. H. SEARK.....	1916.....	Gastonia,	N. C.
WILLIS SMITH.....	1929.....	Raleigh,	N. C.

\* Deceased, March 25, 1938.

## Term Expires December 31, 1943

Year of  
Election

R. L. FLOWERS, Recording Secretary.....	1927.....	Durham,	N. C.
G. G. ALLEN.....	1923.....	New York,	N. Y.
J. H. BARNHARDT.....	1918.....	Raleigh,	N. C.
JAMES A. BELL.....	1920.....	Charlotte,	N. C.
R. G. CHERRY.....	1934.....	Gastonia,	N. C.
THOMAS M. GRANT.....	1933.....	Greenville,	N. C.
J. R. SMITH.....	1934.....	Mount Airy,	N. C.
J. P. FRIZZELLE.....	1937.....	Snow Hill,	N. C.

## FROM THE ALUMNI

W. W. FLOWERS.....	1925.....	New York,	N. Y.
J. B. HURLEY.....	1896.....	Goldsboro,	N. C.
C. F. LAMBETH.....	1915.....	Thomasville,	N. C.
C. K. PROCTOR.....	1935.....	Oxford,	N. C.

## ENDOWMENT TRUSTEES

MRS. J. B. DUKE.....	1924.....	New York,	N. Y.
G. G. ALLEN, Chairman.....	1924.....	New York,	N. Y.
W. R. PERKINS, Vice-Chairman.....	1924.....	New York,	N. Y.
E. C. MARSHALL, Assistant Secretary.....	1924.....	Charlotte,	N. C.
N. A. COCKE, Vice-Chairman.....	1924.....	Charlotte,	N. C.
C. I. BURKHOLDER.....	1924.....	Charlotte,	N. C.
B. E. GEER.....	1924.....	Greenville,	S. C.
A. H. SANDS, JR., Secretary.....	1924.....	New York,	N. Y.
W. C. PARKER, Treasurer.....	1924.....	New York,	N. Y.
W. B. BELL.....	1924.....	New York,	N. Y.
W. S. RANKIN.....	1925.....	Charlotte,	N. C.
R. L. FLOWERS.....	1926.....	Durham,	N. C.
W. N. REYNOLDS.....	1931.....	Winston-Salem,	N. C.
W. S. O'B. ROBINSON, JR.....	1932.....	Charlotte,	N. C.
MRS. DORIS DUKE CROMWELL.....	1933.....	New York,	N. Y.

## COMMITTEES OF THE UNIVERSITY TRUSTEES

*Buildings and Grounds:* J. R. SMITH, CHERRY, BARNHARDT.

*Business Administration of the University:* HANES, LONG, ELIAS.

*Colleges:* ALDERMAN, ROPER, HORNE.

*School of Forestry:* DWIRE, W. W. FLOWERS, NEWSOM.

*Graduate School:* WEBB, TURRENTINE, SIMMONS, R. L. FLOWERS.

*Law School:* WILLIS SMITH, WOMBLE, BELL, FRIZZELLE.

*Library:* STANBURY, HANES, LAMBETH, WEAVER.

*Medical School and Hospital:* THOMAS, MAYER, PROCTOR.

*School of Religion:* PEELE, GRANT, HURLEY, MARR.

# OFFICERS OF ADMINISTRATION

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## GENERAL ADMINISTRATION

FEW, WILLIAM PRESTON, A.B., A.M., Ph.D., Litt.D., Ed.D., LL.D. <i>President</i>	West Campus
FLOWERS, ROBERT LEE, A.M., LL.D. <i>Vice-President in the Business Division, Secretary and Treasurer</i>	West Campus
WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D. <i>Vice-President in the Educational Division and Dean of the University</i>	West Campus
BROWN, FRANK CLYDE, A.B., A.M., Ph.D. <i>Comptroller</i>	410 Buchanan Road

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## BUSINESS ADMINISTRATION

FLOWERS, ROBERT LEE, A.M., LL.D. <i>Secretary and Treasurer</i>	West Campus
MARKHAM, CHARLES BLACKWELL, A.B., A.M. <i>Assistant Treasurer</i>	204 Dillard Street
JORDAN, CHARLES EDWARD, A.B. <i>Assistant Secretary</i>	813 Vickers Avenue
DOOLEY, NELL, R.N. <i>Dietitian, the Union</i>	Faculty Apartments, East Campus
HENRICKSEN, GERHARD CHESTER, A.B., A.M., C.P.A. <i>Auditor</i>	216 Forest Wood Drive, Forest Hills
MARTIN, LILLY SLADE, MRS. <i>Supervisor of Dormitories</i>	1506 Club Boulevard
MOORE, JOHN MEREDITH, A.B. <i>Manager, the Duke University Stores</i>	1028 Monmouth Avenue
ROBERSON, HELEN, MRS. <i>Dietitian, the Union</i>	East Campus
SAWYER, OTIS, A.B. <i>Purchasing Agent, Duke University</i>	2010 Club Boulevard
SPRAGUE, GERTRUDE, MRS. <i>Dietitian, Southgate Hall</i>	Southgate Hall
THOMPSON, JAMES EDWARD <i>Manager, the Duke University Dining Halls</i>	504 East Forest Hills Boulevard
TYREE, WILLIAM ALLEN, A.B. <i>Director in the Business Division</i>	610 Buchanan Road
WHITFORD, WILLIAM EDWARD, A.B. <i>Director in the Business Division</i>	1409 N. Duke Street
*WHITTED, WALTER LEWIS <i>Bookkeeper</i>	1204 Markham Avenue

\* Deceased, June 14, 1938.

## PUBLIC RELATIONS AND ALUMNI AFFAIRS

DWIRE, HENRY RUDOLPH, A.B., A.M. <i>Director of Public Relations and Alumni Affairs</i>	Washington Duke Hotel
ALDRIDGE, ELIZABETH, A.B. <i>Assistant Director, Alumni Affairs</i>	East Campus
DUKES, CHARLES AUBREY, A.B. <i>Assistant Director, Public Relations</i>	1403 Oakland Avenue
JACKSON, DAVID KELLY, A.B., A.M. <i>Assistant to the Editor, Duke University Press</i>	1104 Watts Street
MANN, GLENN EDWARD, A.B. <i>Manager Athletics Division, the News Service</i>	1405 Oakland Avenue
RIVERA, RODOLFO OSVALDO, A.B., A.M., Ph.D. <i>Executive Secretary, Duke University Press</i>	1114 Eighth Street
SIMPSON, JAMES ROBERT, A.B. <i>Director, Appointments Office</i>	Johnson Apartments, Watts Street
WILKINSON, ALBERT ALEXANDER <i>Director, the News Service</i>	1113 Alabama Avenue

## EDUCATIONAL ADMINISTRATION

WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D. <i>Dean of the University and of Trinity College</i>	West Campus
BALDWIN, ALICE MARY, A.B., A.M., Ph.D. <i>Dean of the Woman's College</i>	East Campus
GREENE, WALTER KIRKLAND, A.B., A.M., Ph.D. <i>Dean of Undergraduate Instruction</i>	Myrtle Drive, West Campus
HERRING, HERBERT JAMES, A.B., A.M. <i>Dean of Men, Trinity College</i>	Myrtle Drive, West Campus
MANCHESTER, ALAN KREBS, A.B., A.M., Ph.D. <i>Dean of Freshmen, Trinity College</i>	Myrtle Drive, West Campus
SMITH, RUTH SLACK, MRS., A.B., A.M. <i>Associate Dean of Undergraduate Instruction, Woman's College</i>	Faculty Apartments, East Campus
ANDERSON, ELIZABETH, A.B., A.M. <i>Assistant Dean in Charge of Freshmen of the Woman's College</i> <i>Secretary of the Committee on Admissions of the Woman's College</i>	301 Erwin Apartments
*PICKETT, ANNIE CALDWELL, MRS., A.B. <i>Recorder, Trinity College</i>	1700 Duke University Road
COLEMAN, MARGARET, A.B., A.M. <i>Recorder, Trinity College</i>	918 Urban Avenue
SEABOLT, LOUISE, A.B., A.M. <i>Recorder, Woman's College</i>	114 Faculty Apartments, East Campus
**GLASSON, WILLIAM HENRY, Ph.B., Ph.D. <i>Dean of the Graduate School of Arts and Sciences</i>	710 Buchanan Road
HOOVER, CALVIN BRYCE, A.B., Ph.D., Litt.D. <i>Dean of the Graduate School of Arts and Sciences</i>	922 Urban Avenue

\* Resigned, March 1, 1938.

\*\* Resigned, June 6, 1938.

- HORACK, HUGO CLAUDE, Ph.B., LL.B., LL.D.  
*Dean of the School of Law* 2021 Myrtle Drive, West Campus
- KENDALL, HELEN MILDRED, A.B.  
*Registrar, School of Law* 1013 Dacian Avenue
- HOLTON, HOLLAND, A.B., J.D.  
*Director of the Summer School* 809 Watts Street
- RUSSELL, ELBERT, A.B., A.M., Ph.D.  
*Dean of the School of Religion* 811 Vickers Avenue
- GARBER, PAUL NEFF, A.B., A.M., Ph.D.  
*Registrar of the School of Religion* West Campus
- DAVISON, WILBURT CORNELL, A.B., B.A., B.Sc., A.M., D.Sc., M.D.  
*Dean of the School of Medicine* Hope Valley
- STOCKSDALE, HELEN I.  
*Recorder, School of Medicine* 203 Watts Street
- \*BAKER, BESSIE, R.N., B.S.  
*Dean of the School of Nursing* Nurses Home
- KORSTIAN, CLARENCE FERDINAND, B.S.F., M.F., M.A., Ph.D.  
*Dean of the School of Forestry* 908 West Markham Avenue
- WILSON, MARY GRACE, A.B.  
*Dean of Residence, Woman's College,*  
*Head of Brown House* Brown House
- HUCKABEE, ELLEN HARRIS, A.B., A.M.  
*Assistant Dean of Residence, Woman's College,*  
*Head of Pegram House* Pegram House

## INSTRUCTIONAL STAFF

*This alphabetical list includes all members of the various faculties of the University. The date denotes the first year of service.*

- ADAMS, DONALD KEITH, (1931) A.B., M.A., Ph.D.  
*Assistant Professor of Psychology* Cornwallis Road
- \*\*ADDOMS, RUTH MARGERY, (1930) B.A., M.A., Ph.D.  
*Assistant Professor of Botany* 1003 Lamond Avenue
- ALDRIDGE, FRED SOULE, (1922) A.B., A.M.  
*Assistant Professor of Mathematics* East Campus
- ALLEN, DONALD CAMERON, (1938) A.B., Ph.D.  
*Assistant Professor of English*
- ALTVATER, F. VERNON, (1930) A.B., A.M.  
*Associate in Hospital Administration* 1736 Forest Hills Boulevard, W.
- ALYEA, EDWIN PASCAL, (1930) S.B., M.D.  
*Associate Professor of Surgery in Charge of Urology* Hope Valley
- \*ANDERSON, CHARLES ROBERTS, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of English* 1007 Lakewood Avenue
- ANDERSON, LEWIS EDWARD, (1936) B.S., A.M., Ph.D.  
*Instructor in Botany* 1222 Sixth Street
- ANDERSON, WILLIAM BANKS, (1930) A.B., M.D.  
*Associate Professor of Surgery in Charge of Ophthalmology* 10 Beverly Apartments
- ARENA, JAY MORRIS, (1933) B.S., M.D.  
*Associate in Pediatrics* 1104 Virginia Avenue

\* Absent on leave, 1938-1939.

\*\* Absent on leave, second semester, 1938-1939.

- ATWOOD, THEODORE W., (1934) A.B., D.M.D.  
*Associate in Dentistry* Allenton Apartments
- AVILÉS, LUIS, JR., (1935) A.B., A.M., Ph.D.  
*Instructor in Romance Languages* 1405 Alabama Avenue
- AYCOCK, THOMAS MALCOLM, (1937) B.S., M.A.  
*Instructor in Physical Education* 2602 Englewood Avenue
- BAKER, BESSIE, (1930) B.S., R.N.  
*Dean of the School of Nursing and  
 Professor of Nursing Education* Nurses Home
- BAKER, LENOX DIAL, (1937) M.D.  
*Instructor in Orthopedics* 1435 Arcadia Street
- BAKER, ROGER DENIO, (1930) A.B., M.D.  
*Assistant Professor of Pathology* 1111 Watts Street
- BALDWIN, ALICE MARY, (1923) A.B., A.M., Ph.D.  
*Associate Professor of History* East Campus
- BARDEN, JOHN GLENN, (1937) A.B., A.M.  
*Instructor in Education, first semester, 1937-1938* 1108 B Street
- BAUM, PAULL FRANKLIN, (1922) A.B., A.M., Ph.D.  
*Professor of English* 103 Faculty Apartments, East Campus
- BEARD, JOSEPH W., (1937) A.B., M.D.  
*Assistant Professor of Surgery in Charge of Experimental Surgery* 144 Pinecrest Road
- BENTON, JOHN KEITH, (1938) A.B., B.D., Ph.D.  
*Visiting Professor of Christian Doctrine*
- BERNHEIM, FREDERICK, (1930), A.B., Ph.D.  
*Associate Professor of Physiology and Pharmacology* Woodridge Drive, Rockwood
- BERNHEIM, MARY LILIAS CHRISTIAN, MRS., (1930) B.A., M.A., Ph.D.  
*Assistant Professor of Biochemistry* Woodridge Drive, Rockwood
- BERRY, EDWARD WILLARD, (1936) A.B., Ph.D.  
*Assistant Professor of Geology* 1003 N. Gregson Street
- BERRY, THOMAS SENIOR, (1935) S.B., M.A., Ph.D.  
*Instructor in Economics* Vineyard Street
- BIGELOW, LUCIUS AURELIUS, (1929) S.B., Ph.D.  
*Associate Professor of Chemistry* 131 Pinecrest Road
- BIRD, HAROLD CRUSIUS, (1926) Ph.B., C.E.  
*Professor of Civil Engineering* 1209 Virginia Avenue
- BLACK, MARTIN LEE, JR., (1930) A.B., M.B.A., C.P.A.  
*Assistant Professor of Accounting* 135 Pinecrest Road
- BLACKBURN, WILLIAM MAXWELL, (1926) A.B., B.A., M.A.  
*Assistant Professor of English* 715 Anderson Street
- BLOMQUIST, HUGO LEANDER, (1920) B.S., Ph.D.  
*Professor of Botany* 922 Demarius Street
- BOLICH, WILLIAM BRYAN, (1927) A.B., B.A. (Juris.), M.A., B.C.L.  
*Professor of Law* Hope Valley
- BONNER, LYMAN GAYLORD, (1937) A.B., Ph.D.  
*Instructor in Physics* 515 S. Duke Street
- BOOKHOUT, CAZLYN GREEN, (1935) A.B., A.M., Ph.D.  
*Instructor in Zoology* 12 Bickett Apartments, Gregson Street
- \*BOYD, WILLIAM KENNETH, (1906) A.B., A.M., Ph.D.  
*Professor of History* Hope Valley

\* Deceased, January 19, 1938.



- BRADFORD, WILLIAM ZIEGLER, (1934) B.S., M.D.  
*Director, Outside Obstetric Service* Duke Hospital and Charlotte, N. C.
- BRADWAY, JOHN SAEGER, (1931) A.B., A.M., LL.B.  
*Professor of Law* 111 Briarcliff Road
- BRANSCOMB, BENNETT HARVIE, (1925) A.B., B.A., M.A., Ph.D.  
*Professor of New Testament Language and Literature* Chelsea Circle, Hope Valley
- BRIDGERS, FURMAN ANDERSON, (1926) A.B., A.M.  
*Assistant Professor of Romance Languages* 1325 Arnette Avenue
- BROADHEAD, EDWARD HALL, (1933) A.B., A.M.  
*Instructor in Music* 1001 Watts Street
- BROWN, FRANCES, (1931) A.B., Ph.D.  
*Instructor in Chemistry* 205 Jones Street
- BROWN, FRANK CLYDE, (1909) A.B., A.M., Ph.D.  
*Professor of English* 410 Buchanan Road
- BROWNELL, WILLIAM ARTHUR, (1930) A.B., A.M., Ph.D.  
*Professor of Educational Psychology* Hope Valley
- BRUINSMA, HENRY A., (1938) B.M.  
*Instructor in Music*
- BRYSON, THADDEUS DILLARD, (1928) LL.D.  
*Professor of Law* Hope Valley
- CALLAWAY, JASPER LAMAR, (1937) M.D.  
*Instructor in Medicine, Dermatology and Syphilology* 907 Second Street
- CANNON, JAMES, III, (1919) A.B., A.M., Th.B., Th.M., D.D.  
*Ivey Professor of History of Religion and Missions* Chelsea Circle, Hope Valley
- CARLITZ, LEONARD, (1932) A.B., A.M., Ph.D.  
*Associate Professor of Mathematics* 1410 Markham Avenue
- CARPENTER, DAVID WILLIAMS, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of Physics* 137 Pinecrest Road
- CARR, JOHN WINDER, JR., (1926) A.B., A.M., Ph.D.  
*Associate Professor of Education* 926 Monmouth Avenue
- CARROLL, EBER MALCOLM, (1923) A.B., A.M., Ph.D.  
*Professor of History* 113 Faculty Apartments
- CARTER, BAYARD, (1931) A.B., B.A., M.A., M.D.  
*Professor of Obstetrics and Gynecology* Myrtle Drive, West Campus
- CAVERS, DAVID FARQUHAR, (1931) B.S., LL.B.  
*Professor of Law* 414 Carolina Circle
- CHAPMAN, ROBERT G., (1936) B.S. in M.E., M.M.E.  
*Instructor in Mechanical Engineering* 1007 West Trinity Avenue
- CHILDS, BENJAMIN GUY, (1924) B.A., M.A.  
*Professor of Education* 1019 West Markham Avenue
- CLARK, KENNETH WILLIS, (1931) A.B., B.D., Ph.D.  
*Assistant Professor of New Testament Language and Literature* 11 Bickett Apartments, Gregson Street
- \*CLYDE, PAUL HIBBERT, (1937) A.B., A.M., Ph.D.  
*Associate Professor of History* 1542 Hermitage Court
- \*\*COILE, THEODORE STANLEY, (1935) B.S.F., M.F.  
*Assistant Professor of Forest Soils* Duke University

\* Absent on leave, first semester, 1938-1939.

\*\* Absent on leave, second semester, 1938-1939.

- COLE, ROBERT TAYLOR, (1935) A.B., A.M., Ph.D.  
*Associate Professor of Political Science* 1015 Demarius Street
- CONANT, NORMAN FRANCIS, (1935) B.S., A.M., Ph.D.  
*Associate in Bacteriology and Mycology* Tuscaloosa Forest
- CONSTANT, FRANK WOODBRIDGE, (1930) B.S., Ph.D.  
*Assistant Professor of Physics* 1607 Hermitage Court
- COOLIDGE, THOMAS BUCKINGHAM, (1935) B.A., M.D.  
*Associate in Biochemistry* 2414 Club Boulevard
- COWPER, FREDERICK AUGUSTUS GRANT, (1918) A.B., A.M., Ph.D.  
*Professor of Romance Languages* 1017 Dacian Avenue
- CRISPELL, RAYMOND, (1933) A.B., M.D.  
*Associate Professor of Medicine in Charge of Neuropsychiatry*  
 Myrtle Drive, West Campus
- CRUM, MASON, (1930) A.B., Ph.D.  
*Assistant Professor of Biblical Literature* 1308 Markham Avenue
- CUNNINGHAM, BERT, (1916) B.S., M.S., Ph.D.  
*Professor of Biology* 1200 Markham Avenue
- DANIEL, WALTER EUGENE, (1936) B.A., M.D.  
*Instructor in Urology* Duke Hospital
- DANN, WILLIAM JOHN, (1935) B.S., Ph.D.  
*Assistant Professor of Physiology and Nutrition* 1307 Arnette Avenue
- DAVIS, GIFFORD, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of Romance Languages* Nation Avenue
- DAVISON, WILBURT CORNELL, (1927) A.B., B.A., B.Sc., M.A., D.Sc., M.D.  
*Professor of Pediatrics* Hope Valley
- DELAPLANE, WALTER HAROLD, (1934) A.B., A.M., Ph.D.  
*Instructor in Economics* Legion Avenue, Tuscaloosa Forest
- DE VYVER, FRANK TRAVER, (1935) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 214 Swift Avenue
- DICK, MACDONALD, (1932) B.A., M.A., M.D.  
*Associate in Medicine, Physiology and Pharmacology*  
 1011 Monmouth Avenue
- DOW, NEAL, (1934) A.B., A.M.  
*Instructor in Romance Languages* 205 Forest Wood Drive
- DRESSEL, FRANCIS GEORGE, (1929) B.S., M.S., Ph.D.  
*Instructor in Mathematics* Route 1, Box 106, Durham
- DUBS, HOMER HASENSLUE, (1937) A.B., A.M., Ph.D.  
*Acting Professor of Philosophy* 2415 Club Boulevard
- EADIE, GEORGE SHARP, (1930) B.A., M.A., M.B., Ph.D.  
*Professor of Physiology and Pharmacology* Hope Valley
- EAGLE, WATT WEEMS, (1930) A.B., M.D.  
*Associate Professor of Surgery in Charge of Otolaryngology*  
 804 Anderson Street
- EASLEY, HOWARD, (1930) A.B., M.A., Ph.D.  
*Assistant Professor of Education* Legion Avenue, Tuscaloosa Forest
- EDWARDS, CHARLES WILLIAM, (1898) A.B., A.M., M.S.  
*Professor of Physics* 406 Buchanan Road
- EITEMAN, WILFORD J., (1937) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 106 Erwin Apartments

- ELLIOTT, WILLIAM WHITFIELD, (1925) B.A., M.A., Ph.D.  
*Professor of Mathematics* 1404 Arnette Avenue
- \*ELLWOOD, CHARLES ABRAM, (1930) Ph.B., Ph.D., LL.D.  
*Professor of Sociology* Pinecrest Road
- ERICKSON, CYRUS CONRAD, (1937) B.S., B.M., M.D.  
*Instructor in Pathology* 812 Anderson Street
- EVERETT, JOHN WENDELL, (1932) A.B., Ph.D.  
*Associate in Anatomy* Woodridge Drive
- FERGUSON, GEORGE BURTON, (1937) M.S., M.D.  
*Instructor in Bronchoscopy* Beverly Apartments
- FINKELSTEIN, HAROLD, (1931) B.S., M.D.  
*Associate in Surgery* Washington Duke Hotel
- FITZGERALD, WILLIAM STONE, (1935) A.B., A.M.  
*Instructor in English* 6 Powe Apartments, 603 Watts Street
- FLETCHER, RICHARD VAN, (1937) B.S., M.D.  
*Instructor in Surgery* Duke Hospital
- FORBUS, WILEY DAVIS, (1930) A.B., M.D.  
*Professor of Pathology* Hope Valley
- FULLER, LON, (1931) A.B., J.D.  
*Professor of Law* Hope Valley
- GARBER, PAUL NEFF, (1924) A.B., A.M., Ph.D.  
*Professor of Church History* Myrtle Drive, West Campus
- GARDINER, ANN HENSHAW, (1930) R.N., B.S., M.S.  
*Associate Professor of Nursing Education* Nurses Home
- GARDNER, CLARENCE ELLSWORTH, JR., (1930) A.B., M.D.  
*Assistant Professor of Surgery* Apt. 4, 813 Second Street
- GATES, ARTHUR MATHEWS, (1909) A.B., A.M., Ph.D.  
*Assistant Professor of Latin* 1030 West Trinity Avenue
- GERGEN, JOHN JAY, (1936) A.B., M.A., Ph.D.  
*Associate Professor of Mathematics* 1012 W. Trinity Avenue
- GIBSON, WILLIAM MARION, (1934) A.B., A.M., Ph.D.  
*Instructor in Political Science* 2014 Wilson Street
- \*GILBERT, ALLAN, (1920) B.A., A.M., Ph.D.  
*Professor of English* 516 Carolina Circle
- GILBERT, KATHERINE EVERETT, (1930) A.B., A.M., Ph.D.  
*Professor of Philosophy* 516 Carolina Circle
- \*GLASSON, WILLIAM HENRY, (1902) Ph.B., Ph.D.  
*Professor of Political Economy and Social Science* 710 Buchanan Road
- GOHDES, CLARENCE, (1930) A.B., A.M., Ph.D.  
*Associate Professor of English* 1104 Watts Street
- GRAVES, ROBERT WILLIAMS, (1936) B.S., M.A., M.D.  
*Associate in Urology and Anatomy* Pickett Road
- GRAY, IRVING EMERY, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Zoology* 1411 Arcadia Street
- GREENE, WALTER KIRKLAND, (1928) A.B., A.M., Ph.D.  
*Professor of English* Myrtle Drive, West Campus
- GREENWOOD, JOSEPH, (1930) A.B., A.M., Ph.D.  
*Instructor in Mathematics* Nation Avenue

\* Absent on leave, second semester, 1938-1939.

- GROSS, PAUL MAGNUS, (1919) B.S., A.M., Ph.D.  
*William Howell Pegram Professor of Chemistry* Hope Valley
- GROUT, JULIA REBECCA, (1924) A.B., M.S.  
*Director of Physical Education, Woman's College* 104 Faculty Apartments
- GROVES, ERNEST RUTHERFORD, (1938) A.B., B.D., Research Professor of Sociology at the University of North Carolina  
*Lecturer on Sociology, second half-year*
- HALL, FRANK GREGORY, (1926) A.B., A.M., Ph.D.  
*Professor of Zoology* 911 W. Markham Avenue
- HALL, LOUISE, (1931) B.A., S.B. in Architecture, Brevet d'Art de la Sorbonne  
*Assistant Professor of Fine Arts* 211 Faculty Apartments
- HALL, WILLIAM HOLLAND, (1915) A.B., A.M., B.C.E., M.S.C.E.  
*Professor of Engineering* 11 Beverly Apartments
- HAMBLÉN, EDWIN CROWELL, (1931) B.S., M.D.  
*Associate Professor of Obstetrics and Gynecology* 814 Forest Hill Road
- HAMILTON, EARL JEFFERSON, (1927) B.S., A.M., Ph.D.  
*Professor of Economics* 1015 Demarius Street
- HAMILTON, WILLIAM BASKERVILLE, JR., (1936) A.B., A.M., Ph.D.  
*Instructor in History* 1018 Monmouth Avenue
- HANES, FREDERIC MOIR, (1931) A.B., A.M., M.D.  
*Florence McAlister Professor of Medicine* 2127 Myrtle Drive, West Campus
- HANSEN-PRÜSS, OSCAR CARL EDWARD, (1930) A.B., M.D.  
*Associate Professor of Medicine* 3 Surry Road, Hope Valley
- HARGITT, GEORGE THOMAS, (1930) Ph.B., A.M., Ph.D.  
*Professor of Zoology* 811 Watts Street
- HARRAR, ELLWOOD SCOTT, (1936) B.S., M.S., Ph.D.  
*Associate Professor of Wood Technology* 1402 Alabama Avenue
- HARRIS, JEROME SYLVAN, (1937) A.B., M.D.  
*Instructor in Pediatrics and Biochemistry* 208 Atlas Street
- \*HARRISON, EDWARD K., (1935) A.B., M.D.  
*Instructor in Roentgenology*
- HART, DERYL, (1930) A.B., A.M., M.D.  
*Professor of Surgery* Duke University Road and Highway 751
- HART, HORNELL NORRIS, (1938) A.B., M.A., Ph.D.  
*Professor of Sociology* Duke University
- HARWELL, GEORGE CORBIN, (1935) A.B., A.M.  
*Instructor in English* No. 8, Aycock Apartments, Dacian Avenue
- HASBROUCK, FRANCIS MAHLON, (1935) A.B., Ph.D.  
*Instructor in Romance Languages* 418 Carolina Circle
- HATLEY, CHARLES CLEVELAND, (1917) A.B., A.M., Ph.D.  
*Professor of Physics* 708 Buchanan Road
- HAUSER, CHARLES ROY, (1929) B.S., M.S., Ph.D.  
*Assistant Professor of Chemistry* 1020 Rose Hill Avenue
- HAVENS, RALPH MURRAY, (1938) A.B., M.B.A.  
*Instructor in Economics*
- HEBB, MALCOLM HAYDEN, (1938) A.B., Ph.D.  
*Instructor in Physics*

\* Resigned, February 28, 1938.

- HERRING, HERBERT JAMES, (1924) A.B., A.M.  
*Assistant Professor of Public Spcaking* Myrtle Drive, West Campus
- HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.  
*Associate Professor of Anatomy* Hope Valley
- HICKMAN, FRANKLIN SIMPSON, (1927) A.B., S.T.B., A.M., Ph.D.  
*Professor of Preaching* 823 Buchanan Road
- HICKSON, ARTHUR OWEN, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of Mathematics* Legion Avenue, Tuscaloosa Forest
- HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.  
*Instructor in Chemistry* Woodridge Drive, Rockwood
- HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.  
*Instructor in Chemistry* 10 Powe Apartments, Buchanan Boulevard
- HOLLINSHEAD, WILLIAM HENRY, (1931) B.A., M.S., Ph.D.  
*Associate in Anatomy* 1006 Urban Avenue
- HOLSCHER, EDWARD CHARLES, (1936) A.B., B.S., M.D.  
*Instructor in Orthopedics* Duke Hospital
- HOLTON, HOLLAND, (1912) A.B., J.D.  
*Professor of the History and Science of Education* 809 Watts Street
- HOOVER, CALVIN BRYCE, (1925) A.B., Ph.D., Litt.D.  
*Professor of Economics* 922 Urban Avenue
- HORACK, HUGO CLAUDE, (1930) Ph.B., LL.B., LL.D.  
*Professor of Law* 2021 Myrtle Drive, West Campus
- \*HUBBELL, JAY BROADUS, (1927) A.B., A.M., Ph.D.  
*Professor of English* Pinecrest Road
- IRVING, WILLIAM HENRY, (1936) B.A., B.A. (Oxon), M.A., Ph.D.  
*Professor of English* Legion Avenue
- JACOBS, JULIEN E., (1936) M.D.  
*Instructor in Orthopedics* Duke Hospital
- JEFFERS, KATHERINE R., (1937) A.B., A.M., Ph.D.  
*Instructor in Zoology* 1507 West Pettigrew Street
- JENSEN, HOWARD EIKENBERRY, (1931) A.B., A.M., B.D., Ph.D.  
*Professor of Sociology* 143 Pinecrest Road
- JOHNSON, FRANK LOUIS, (1938) B.A., M.A., Ph.D.  
*Instructor in English*
- JOHNSON, MYCHYLE W., (1937) A.B., Ph.D.  
*Instructor in Zoology* 1119 Eighth Street
- JOHNSTON, CHRISTOPHER, (1930) A.B., M.D.  
*Assistant Profcсор of Medicine* University Apartments
- JONES, ROBERT RANDOLPH, JR., (1930) A.B., M.D.  
*Assistant Professor of Surgery* 1105 Watts Street
- JORDAN, ARCHIBALD CURRIE, (1925) A.B., A.M.  
*Assistant Professor of English* Pinecrest Road, Corner U. S. Highway No. 751
- \*JORDAN, BRADY RIMBEY, (1927) Litt.B., Ph.D.  
*Professor of Romance Languages* 117 Pinecrest Road
- JOYNER, GEORGE W., (1932) B.S., M.D.  
*Instructor in Surgery* Duke Hospital
- KEECH, JAMES MAYNARD, (1931) A.B., A.M., Ph.D.  
*Instructor in Economics* Vineyard Street
- \* Absent on leave, second semester, 1938-1939.



- KEMP, MALCOLM D., (1937) M.D.  
*Associate in Clinical Psychiatry* Pine Bluff, N. C.
- KEMPNER, WALTER, (1935) M.D.  
*Associate in Medicine* Washington Duke Hotel
- KOHN, HENRY IRVING, (1937) A.B., Ph.D.  
*Instructor in Physiology and Pharmacology* 208 Buchanan Boulevard
- KORSTIAN, CLARENCE FERDINAND, (1930) B.S.F., M.F., M.A., Ph.D.  
*Professor of Silviculture* 908 West Markham Avenue
- KRAMER, PAUL JACKSON, (1931) A.B., M.Sc., Ph.D.  
*Assistant Professor of Botany* 2403 Englewood Avenue
- KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.  
*Professor of German* 2118 Englewood Avenue
- LA FARGUE, THOMAS E., (1938) A.B., A.M., Ph.D.  
*Visiting Assistant Professor of History, first half-year*
- LONDON, CHARLES EDWARD, (1926) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 1001 West Trinity Avenue
- LANNING, JOHN TATE, (1927) A.B., A.M., Ph.D.  
*Assistant Professor of History* Hope Valley
- LAPRADE, WILLIAM THOMAS, (1909) A.B., Ph.D.  
*Professor of History* 1108 Monmouth Avenue
- LATTY, ELVIN REMUS, (1937), B.S., J.D., J.Sc.D.  
*Professor of Law* 2016 Wilson Street
- LEMERT, BEN FRANKLIN, (1930) B.Sc. in Bus. Admn., M.A., Ph.D.  
*Assistant Professor of Economic Geography* 15 Ambassador Apartments
- LEONARD, HENRY SIGGINS, (1937) A.B., A.M., Ph.D.  
*Assistant Professor of Philosophy* 606 N. Gregson Street
- LEWIS, LEROY, (1935) A.B., A.M.  
*Instructor in Public Speaking* 640 Club Boulevard
- LINEBARGER, PAUL MYRON ANTHONY, (1937) A.B., M.A., Ph.D.  
*Instructor in Political Science* 902 Buchanan Road
- LONDON, FRITZ, (1938) Ph.D.  
*Visiting Lecturer in Theoretical Chemistry, first half-year*
- LOWNDES, CHARLES LUCIEN BAKER, (1934) A.B., LL.B., S.J.D.  
*Professor of Law* 2016 Club Boulevard
- LUNDEBERG, OLAV, (1931) A.B., A.M., Ph.D.  
*Associate Professor of Romance Languages* 1001 Lamond Avenue
- LUNDHOLM, HELGE, (1930) Fil. Kand., Fil. Lic., Ph.D.  
*Professor of Psychology* Rollins Apartments
- MACCARDLE, ROSS CLAYTON, (1937) B.S., Ph.D.  
*Instructor in Anatomy* 814 Forest Hills Boulevard
- MABRY, WILLIAM ALEXANDER, (1930) A.B., A.M., Ph.D.  
*Instructor in History* 703 Club Boulevard
- MAGGS, DOUGLAS BLOUNT, (1930) A.B., J.D., S.J.D.  
*Professor of Law* Hope Valley
- MANCHESTER, ALAN KREBS, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of History* Myrtle Drive, West Campus



- MARTIN, DONALD STOVER, (1932) A.B., M.D.  
*Assistant Professor of Bacteriology and Associate in Medicine*  
 2609 Chapel Hill Boulevard
- MARTIN, ELSIE WILSON, MRS., (1930) A.B., M.S.  
*Professor of Dietetics*  
 206 Faculty Apartments, East Campus
- MARX, WALTER, (1937) B.A., Ph.D.  
*Research Associate in Surgery and Biochemistry*  
 Powe Apartments
- \*MAUGHAN, WILLIAM, (1931) B.S., M.F.  
*Associate Professor of Forest Management*  
 2409 Club Boulevard
- MAXWELL, WILLIAM CARY, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of German*  
 142 Pinecrest Road
- MAYFIELD, MARIE MARCIA, (1935) B.A., Brevet d'Art de la Sorbonne  
*Instructor in Fine Arts*  
 406 Buchanan Boulevard
- McBRYDE, ANGUS, (1931) B.S., M.D.  
*Assistant Professor of Pediatrics*  
 1007 Homer Street
- MCCAIN, PAUL PRESSLY, (1933) A.B., M.D.  
*Assistant Professor of Clinical Medicine*  
 Duke Hospital and Southern Pines, N. C.
- MCCLOY, SHELBY THOMAS, (1927) A.B., M.A., B.A., B.Litt., Ph.D.  
*Instructor in History*  
 1208 Arnette Avenue
- MCCREA, FOREST DRAPER, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Physiology and Pharmacology*  
 1023 Demarius Street
- MCCULLOCH, THOMAS L., (1937) A.B., A.M., Ph.D.  
*Visiting Instructor in Psychology*  
 2205 Woodrow Street
- MCDERMOTT, MALCOLM, (1930) A.B., LL.B.  
*Professor of Law*  
 East Campus
- MCDONALD, ALEXANDER DONALD, (1936) A.B., M.F.A.  
*Assistant Professor of Fine Arts*  
 Woodridge Road
- MCDUGALL, WILLIAM, (1927) B.A., M.A., M.B., D.Sc., Litt.D.  
*Professor of Psychology*  
 303 Faculty Apartments, East Campus
- McLARTY, FURMAN GORDON, (1933) A.B., B.A., A.M., Ph.D.  
*Instructor in Philosophy*  
 Hillsboro, N. C.
- MEIER, OTTO, JR., (1934) B.S. in E.E., E.E.  
*Instructor in Electrical Engineering*  
 903 Sixth Street
- MILES, EDWARD ROY CECIL, (1929) B.S., M.A., Ph.D.  
*Assistant Professor of Mathematics*  
 1028 Gloria Avenue
- MITCHELL, FRANK KIRBY, (1926) A.B., A.M.  
*Associate Professor of English*  
 East Campus
- MORGAN, GEORGE ALLEN, JR., (1936) Ph.B., A.M., Ph.D.  
*Associate Professor of Philosophy*  
 1210 Vickers Avenue
- MORGAN, JASPER EUGENE, (1936) B.S., A.M., Ph.D.  
*Instructor in Roentgenology and Physiology*  
 622 Swift Avenue
- MOUZON, JAMES CARLISLE, (1932) B.A., Ph.D.  
*Assistant Professor of Physics*  
 132 Pinecrest Road
- MUNYAN, MERRILL CALVIN, (1934) A.B.  
*Instructor in History*  
 East Campus
- MYERS, HIRAM EARL, (1926) A.B., S.T.B., S.T.M.  
*Professor of Biblical Literature*  
 141 Pinecrest Road

\* Absent on leave, first semester, 1937-1938.

- NELSON, ERNEST WILLIAM, (1926) A.B., A.M., Ph.D.  
*Associate Professor of History* Hope Valley
- NESTER, GARNETT ANNE, (1935) R.N., B.S.  
*Instructor in Nursing* Nurses Home
- NICHOLSON, WILLIAM MCNEAL, (1935) A.B., M.D.  
*Associate in Medicine and Biochemistry* 1502 Florida Avenue
- NIELSEN, WALTER MCKINLEY, (1925) B.S. in E.E., Ph.D.  
*Professor of Physics* 139 Pinecrest Road
- NORDHEIM, LOTHAR WOLFGANG, (1937) Ph.D.  
*Professor of Physics* 904 Buchanan Road
- OLIVER, HENRY MADISON, (1937) A.B., A.M.  
*Instructor in Economics* 1601 Duke University Road
- OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.  
*Assistant Professor of Botany* University Drive, Rockwood
- ORGAIN, EDWARD STEWART, (1934) M.D.  
*Associate in Medicine and Physiology* 116 Faculty Apartments
- ORMOND, JESSE MARVIN, (1923) A.B., B.D.  
*Professor of Practical Theology* 301 Watts Street
- OUTLER, ALBERT C., (1938) A.B., Ph.D.  
*Instructor in English Bible and Historical Theology*
- PATTERSON, KARL BACHMAN, (1920) A.B., A.M.  
*Assistant Professor of Mathematics* 1024 Monmouth Avenue
- PATTON, LEWIS, (1926) A.B., Ph.D.  
*Assistant Professor of English* 1511 W. Pettigrew Street
- PEARSE, ARTHUR SPERRY, (1926) B.S., A.M., Ph.D.  
*Professor of Zoology* Chelsea Circle, Hope Valley
- PEARSE, RICHARD LEHMER, (1935) A.B., M.D.  
*Instructor in Obstetrics and Gynecology* Duke Hospital
- PEPPLER, CHARLES WILLIAM, (1912) A.B., Ph.D.  
*Professor of Greek* 406 Buchanan Road
- PERLZWEIG, WILLIAM ALEXANDER, (1930) B.S., A.M., Ph.D.  
*Professor of Biochemistry* Hope Valley
- PERRY, HAROLD SANFORD, (1932) A.B., Ph.D.  
*Instructor in Botany* 1222 Sixth Street
- PERSONS, ELBERT LAPSLEY, (1930) A.B., M.D.  
*Associate in Medicine and Dermatology* Anderson Street
- PETRY, RAY C., (1937) A.B., A.M., Ph.D.  
*Assistant Professor of Early Church History* 1111 Oval Drive
- POSTON, MARY ALVERTA, (1930)  
*Instructor in Bacteriology* 512 Watts Street
- POTEAT, JAMES DOUGLASS, (1936) A.B., LL.B., J.S.D.  
*Professor of Law* 1015 Dacian Avenue
- POTEAT, MARY, (1935) A.B., A.M., Ph.D.  
*Instructor in English* 402 Buchanan Road
- PRATT, JOSEPH GAITHER, (1937) A.B., A.M., Ph.D.  
*Instructor in Psychology* Nation Avenue
- PROCTOR, ARTHUR MARCUS, (1923) A.B., A.M., Ph.D.  
*Professor of Education* Myrtle Drive, West Campus

- QUERY, RICHARD ZIMRI, JR., (1935) B.S., M.D.  
*Instructor in Medicine* Duke Hospital
- QUYNN, DOROTHY MACKAY, MRS., (1930) A.B., A.M., Docteur de l'Universite  
de Paris  
*Assistant Professor of History* Woodridge Drive, Rockwood
- QUYNN, WILLIAM ROGERS, (1930) B.A., M.A., Ph.D.  
*Assistant Professor of Romance Languages* Woodridge Drive, Rockwood
- RANEY, RICHARD BEVERLY, (1934) A.B., M.D.  
*Instructor in Orthopedics* Bland Apartments
- RANKIN, ROBERT STANLEY, (1927) A.B., A.M., Ph.D.  
*Professor of Political Science* Manchester Apartments
- RANKIN, WATSON SMITH, (1925) M.D.  
*Lecturer in Preventive Medicine and Public Health* Charlotte, N. C.
- RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.  
*Professor of Mathematics* 1011 Gloria Avenue
- RANSON, RUSSELL, (1934) B.S.  
*Instructor in Electrical Engineering* No. 2, Bickett Apartments
- RASMUSSEN, LESTER PAUL, (1937) B.A., M.D.  
*Instructor in Pediatrics* Duke Hospital
- \*RATCHFORD, BENJAMIN ULYSSES, (1928) B.S., A.M., Ph.D.  
*Assistant Professor of Economics* 2030 Englewood Avenue
- RAYMOND, MARY LOIS, (1931) A.B., M.A.  
*Instructor in Romance Languages* 1003 Lamond Avenue
- REED, FREDERICK JEROME, (1935) M.E., M.S.  
*Instructor in Mechanical Engineering* 2203 Englewood Avenue
- REEVES, ROBERT JAMES, (1930) A.B., M.D.  
*Associate Professor of Roentgenology* 1010 Monmouth Avenue
- RHINE, JOSEPH BANKS, (1927) B.S., M.S., Ph.D.  
*Professor of Psychology* 908 W. Club Boulevard
- ROBERT, JOSEPH CLARKE, (1938) A.B., A.M., Ph.D.  
*Assistant Professor of History*
- ROBERTS, JOHN H., (1931) A.B., Ph.D.  
*Assistant Professor of Mathematics* Legion Avenue, Tuscaloosa Forest
- ROGERS, ROBERT S., (1937) A.B., A.M., Ph.D.  
*Professor of Latin* 1008 W. Trinity Avenue
- ROPP, THEODORE, (1938) A.B., A.M., Ph.D.  
*Instructor in History* Duke University
- ROSBOROUGH, RUSKIN RAYMOND, (1925) A.B., A.M., Ph.D., Docteur en  
philologie classique, Louvain  
*Professor of Latin* 410 Watts Street
- ROSE, JESSE LEE, (1936) A.B., M.A., Ph.D.  
*Instructor in Latin* No. 5, Powe Apartments, 603 Watts Street
- ROSS, ROBERT ALEXANDER, (1930) B.S., M.D.  
*Associate Professor of Obstetrics and Gynecology* 818 Anderson Street
- \*\*ROWE, GILBERT THEODORE, (1928) A.B., S.T.D., D.D., Litt.D.  
*Professor of Christian Doctrine* 150 Pinecrest Road
- RUFFIN, JULIAN MEADE, (1930) B.A., M.A., M.D.  
*Associate Professor of Medicine* Anderson Street

\* Absent on leave, 1938-1939.

\*\* Absent on leave, first semester, 1938-1939.

- RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D.  
*Professor of Biblical Interpretation* 811 Vickers Avenue
- SANDERS, C. RICHARD, (1937) B.Ph., M.A., Ph.D.  
*Instructor in English* 1315 Vickers Avenue
- SANDERS, PAUL HAMPTON, (1936) A.B., LL.B.  
*Assistant Professor of Law* 3 Salmon Apartments
- SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.  
*Assistant Professor of Chemistry* 1604 B Street
- SCHUMACHER, FRANCIS X., (1937) B.S.  
*Professor of Forestry* 6 Sylvan Road
- SEELEY, WALTER JAMES, (1925) E.E., M.S.  
*Professor of Electrical Engineering* 1005 Urban Avenue
- \*SHANDS, ALFRED RIVES, JR., (1930) B.A., M.D.  
*Associate Professor of Surgery in Charge of Orthopedics* 812 Anderson Street
- SHEARS, LAMBERT ARMOUR, (1927) A.B., A.M., Ph.D.  
*Instructor in German* 917 Green Street
- SHERWOOD, MILDRED, (1930) R.N.  
*Instructor in Pediatrics* Nurses Home
- SHIELDS, JOHN HERMAN, (1926) A.B., A.M.  
*Assistant Professor of Accounting* 602 W. Chapel Hill Street
- SHIPMAN, GEORGE A., (1938) A.B., Ph.D.  
*Associate Professor of Political Science*
- \*\*SHRYOCK, RICHARD HARRISON, (1925) B.S., Ph.D.  
*Professor of History* 1107 Watts Street
- SIMPSON, WILLIAM HAYS, (1930) A.B., A.M., Ph.D.  
*Instructor in Political Science* 1408 Dollar Avenue
- SMITH, BEVERLEY E., (1937) B.S., M.D.  
*Associate in Clinical Psychiatry* Pinebluff, N. C.
- SMITH, DAVID TILLERSON, (1930) A.B., M.D.  
*Professor of Bacteriology and Associate Professor of Medicine* Hope Valley
- \*\*\*SMITH, HILRIE SHELTON, (1931) A.B., Ph.D., D.D.  
*Professor of Christian Ethics and Religious Education* 1523 Hermitage Court
- SMITH, ROBERT SIDNEY, (1932) A.B., A.M., Ph.D.  
*Instructor in Economics* 2204 Wilson Street
- SMITH, RUTH SLACK, MRS., (1927) A.B., A.M.  
*Instructor in Education* 115 Faculty Apartments, East Campus
- SMITH, SUSAN GOWER, (1930) A.B., M.A.  
*Associate in Medicine* Hope Valley
- SPENCE, BESSIE WHITTED, MRS., (1929) A.B., A.M., B.D.  
*Instructor in Biblical Literature* Hope Valley
- SPENCE, HERSEY EVERETT, (1918) A.B., A.M., B.D., D.D.  
*Professor of Biblical Literature and Religious Education* Hope Valley
- SPENGLER, JOSEPH JOHN, (1934) A.B., M.A., Ph.D.  
*Professor of Economics* 1601 Lakewood Avenue
- SPONER, HERTHA, (1935) Ph.D.  
*Professor of Physics* 813 Second Street

\* Absent on leave, 1937-1938.

\*\* Resigned, June 6, 1938.

\*\*\* Absent on leave, first semester, 1938-1939.

- SPRINGER, JOHN YOUNG, (1936) A.B., M.B.A.  
*Assistant Professor of Economics* 907 Second Street
- SPRUNT, DOUGLAS HAMILTON, (1932) B.S., M.S., M.D.  
*Associate Professor of Pathology* Hope Valley
- STAYER, GLENN EMORY, (1935) A.B., M.D.  
*Instructor in Otolaryngology and Ophthalmology* Duke Hospital
- \*STERN, WILLIAM, (1934) Ph.D., LL.D.  
*Professor of Psychology and Philosophy* 205 Jones Street
- STILL, BAYRD, (1938) A.B., A.M., Ph.D.  
*Assistant Professor of History* Duke University
- STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.  
*Assistant Professor of Old Testament* 1107 Urban Avenue
- SUGDEN, HERBERT WILFRED, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of English* 201 Faculty Apartments, East Campus
- SWETT, FRANCIS HUNTINGTON, (1930) A.B., M.A., Ph.D.  
*Professor of Anatomy* Hope Valley
- SYDNOR, CHARLES SACKETT, (1936) A.B., Ph.D.  
*Associate Professor of History* 212 Watts Street
- TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.  
*Assistant Professor of Biochemistry and Toxicology* University Drive, Rockwood
- THOMAS, JOSEPH MILLER, (1930) A.B., Ph.D.  
*Professor of Mathematics* University Apartments
- THOMAS, WALTER LEE, JR., (1937) A.B., M.A., M.D.  
*Assistant Professor of Obstetrics and Gynecology* Erwin Apartments
- THOMPSON, EDGAR T., (1935) A.B., A.M., Ph.D.  
*Assistant Professor of Sociology* Cornwallis Road
- THOMSON, ROY BERTRAND, (1938) B.S., M.F.  
*Associate Professor of Forest Economics* Duke University
- TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.  
*Instructor in Greek* Duke University
- VANCE, MARY HENDREN, MRS., (1926) A.B., A.M.  
*Assistant Professor of English* 208 Watts Street
- VAUGHAN, WALTER WEDDLE, (1936) A.B., M.D.  
*Instructor in Roentgenology* Faculty Apartments
- VOLLMER, CLEMENT, (1926) A.B., A.M., Ph.D.  
*Professor of German* 2114 Myrtle Drive, West Campus
- VON BECKERATH, HERBERT, (1935) Ph.D.  
*Professor of Economics and Political Science* Hope Valley
- VOSBURGH, WARREN CHASE, (1928) B.S., M.S., Ph.D.  
*Professor of Chemistry* 2319 Englewood Avenue
- VOYLES, CARL, (1931) B.S.  
*Assistant Director of Physical Education, Trinity College* 2307 Club Boulevard
- WACKERMAN, ALBERT EDWARD, (1938) B.S., M.F.  
*Professor of Forest Utilization*
- WADE, WALLACE, (1931) A.B.  
*Director of Physical Education, Trinity College* Myrtle Drive, West Campus
- WALTON, LORING BAKER, (1929) A.B., Lic. es L.  
*Associate Professor of Romance Languages* 1012 Green Street

\* Deceased, March 27, 1938.



- WANNAMAKER, WILLIAM HANE, (1904) A.B., A.M., Litt.D.  
*Professor of German* Myrtle Drive, West Campus
- WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.  
*Assistant Professor of English* Pinecrest Road
- WAY, VERNON ELGIN, (1930) A.B., A.M., M.A.  
*Assistant Professor of Greek* 909 Gregson Street
- WEBB, ALBERT MICAIAH, (1903) A.B., A.M.  
*Professor of Romance Languages* 1017 Trinity Avenue
- WELFLING, WELDON, (1936) A.B., A.M., Ph.D.  
*Instructor in Economics* Corner Vineyard Street and Legion Avenue
- WEST, ALFRED THURBER, (1930) B.S., A.M.  
*Instructor in English* 1020 Monmouth Avenue
- WHITE, MARIE ANNE, MRS., (1930) A.B., A.M.  
*Assistant Professor of English* Chelsea Circle, Hope Valley
- WHITE, NEWMAN IVEY, (1919) A.B., A.M., Ph.D.  
*Professor of English* Chelsea Circle, Hope Valley
- WIDGERY, ALBAN GREGORY, (1930) B.A., M.A.  
*Professor of Philosophy* St. Catherine, Pinecrest Road
- WILBUR, RALPH SYDNEY, (1933) B.S. in M.E., M.E.  
*Professor of Mechanical Engineering* 1317 Arnette Avenue
- WILLIAMS, JAMES WESLEY, (1937) A.B., B.S.  
*Instructor in Civil Engineering* Southgate Dormitory
- WILSON, FREDERICK ELIPHAZ, (1923) A.B., A.M.  
*Assistant Professor of German* 1007 Urban Avenue
- WILSON, ROBERT NORTH, (1910) A.B., M.S.  
*Professor of Chemistry* 822 Third Street
- WILSON, ROBERT RENBERT, (1925) A.B., A.M., Ph.D.  
*Professor of Political Science* 717 Anderson Street
- WOLF, FREDERICK ADOLPHUS, (1927) A.B., A.M., Ph.D.  
*Professor of Botany* 924 Urban Avenue
- WOODHALL, BARNES, (1937) B.A., M.D.  
*Assistant Professor in Charge of Neuro-surgery* 2609 Chapel Hill Boulevard
- WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D.  
*Instructor in History* 2534 University Drive
- YATES, ANNE, (1933) A.B., A.M., Ph.D.  
*Associate in Biochemistry* Remie Road
- YOUNG, EDWARD HUDSON, (1923) A.B., A.M.  
*Assistant Professor of Romance Languages* 13 Beverly Apartments
- YOUNG, PAUL G., (1937) B.Ph., A.M.  
*Instructor in German* 1306 N. Mangum Street
- YOUNGSTROM, KARL A., (1937) A.B., M.A., Ph.D.  
*Instructor in Anatomy* 1910 University Drive
- ZENER, KARL EDWARD, (1928) Ph.B., A.M., Ph.D.  
*Associate Professor of Psychology* 416 Carolina Circle
- 
- BAKER, ELEANOR USSHER, (1930) A.B.  
*Instructor in English in School of Nursing* Duke Hospital



BATCHELDER, MARION FRANCIS, (1930) R.N. <i>Instructor in Nursing Administration and Supervision</i>	Duke Hospital
CARPENTER, JAMES M., (1938) Ph.D. <i>Instructor (Part-time) in English</i>	
CHAFFIN, NORA CAMPBELL, (1936) A.B., A.M. <i>Instructor (Part Time) in History</i>	Bassett House
DILL, ISABEL HUNTER, (1934) R.N., B.S. <i>Instructor in Principles and Practice of Nursing</i>	Nurses Home
DOW, MARIE, MME., (1934) L. es L., M.A. <i>Instructor (Part Time) in French</i>	205 Forest Wood Drive
EPPERSON, JESSE HARRISON, (1930) B.S. <i>Instructor in Preventive Medicine and Public Health</i>	Duke Hospital
HINVES, EDITH, (1934) R.N. <i>Instructor in Nursing Supervision</i>	Nurses Home
MARTIN, WILLARD EDGAR, JR., (1937) A.B., A.M. <i>Instructor (Part Time) in English</i>	2109 Chapel Hill Road
STROVEN, CARL GERHARDT, (1938) A.B., A.M. <i>Instructor (Part-time) in English</i>	
WATSON, KARL BRANTLEY, (1936) B.S., A.B., A.M. <i>Instructor in Education</i>	1007 W. Trinity Avenue

## INDUSTRIAL RESEARCH ASSOCIATES

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MCLEAN, RUTH A.B., Woman's College of the University of North Carolina; A.M., Duke University	Chemistry	4 Eloise Apartments

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BEAMER, CELESTINE, (1937) B.S. <i>Assistant in Physiology and Pharmacology</i>	Tuscaloosa Forest
BORLAND, ANDREW HOYT, (1934) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	804 Second Street
BRIDGERS, WILLIAM HENRY, (1936) B.S., M.D. <i>Assistant in Pathology</i>	Duke Hospital
BRYSON, EDWIN CONSTANT, (1931) <i>Assistant in Legal Aid Clinic</i>	Chapel Hill Road
CALDWELL, ELIZA, (1936) A.B., M.D. <i>Assistant in Medicine</i>	Duke Hospital
DEVINE, JOHN WILLIAM, JR., (1935) B.S., M.D. <i>Assistant in Surgery</i>	Duke Hospital
DILL, LESLIE VAN DYKE, (1937) B.S., M.D. <i>Assistant in Pathology</i>	Duke Hospital
FARMER, WILLIAM DEMPSEY, (1935) A.B., M.D. <i>Assistant in Otolaryngology</i>	Duke Hospital
FRASER, CLARENCE KENDALL, (1936) Ph.B., M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital

HARRELL, GEORGE THOMAS, (1936) B.A., M.D. <i>Assistant in Pathology</i>	Duke Hospital
*JONES, JULIA MARY, (1936) B.A., M.D. <i>Assistant in Medicine</i>	Duke Hospital
JONES, JOHN WALTER, (1937) A.B., B.S., M.A., M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
KLEIN, JAMES RAYMOND, (1934) A.B. <i>Assistant in Biochemistry</i>	Duke Hospital
KONDRITZE, ALBERT, (1934) A.B., M.S. <i>Assistant in Biochemistry</i>	1003 Urban Avenue
LEVY, EDWARD DAVID, (1937) A.B. <i>Assistant in Biochemistry</i>	1022 West Trinity Avenue
MANNING, ISAAC HALL, (1937) A.B., M.D. <i>Assistant in Pathology</i>	Duke Hospital
MASON, MARY LOCHER, MRS., (1931) Diploma in Fine Arts, Teachers College, Columbia University <i>Assistant in Education</i>	1026 Gloria Avenue
MENEFEE, ELIJAH EUGENE, JR., (1936) B.S., M.D. <i>James A. Greene Research Fellow in Medicine and Bacteriology</i>	1910 University Drive
MICHEL, HARRY OSCAR, (1934) B.S., Ph.D. <i>Assistant in Clinical Biochemistry</i>	Duke Hospital
MILLER, CHARLES HENDERSON, (1934) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	Dixon Road
MUNROE, HENRY STOKES, JR., (1935) B.S., M.D. <i>Assistant in Surgery</i>	Duke Hospital
PARSONS, PHILIP BROWER, (1936) B.S., M.D. <i>Assistant in Pathology</i>	Duke Hospital
REISER, RAYMOND, (1936) A.B., Ph.D. <i>Fellow in Medicine</i>	Duke Hospital
*REUTER, ERNEST GEORGE, (1937) A.B., M.D. <i>Assistant in Roentgenology</i>	Duke Hospital
ROBERTS, LOUIS CARROLL, (1934) A.B., M.D. <i>Assistant in Surgery</i>	Duke Hospital
*ROSS, IRA STANLEY, (1936) A.B. <i>Assistant in Anatomy</i>	Duke Hospital
RUCKER, EDWIN MACRAE, (1934) A.B., M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
SCHIEBEL, HERMAN MAX, (1933) A.B., M.D. <i>Assistant in Surgery</i>	Duke Hospital
SCHLAYER, CLOTILDE, (1937) Ph.D. <i>Research Assistant in Medicine</i>	Washington Duke Hotel
SCHULZE, WILLIAM, (1936) B.S., M.D. <i>Assistant in Medicine</i>	Duke Hospital
SEALY, WILL CAMP, (1936) B.S., M.D. <i>Assistant in Pathology</i>	Duke Hospital
SEITZ, GIFFORD DE ALTON, (1934) B.A., M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
SHIPP, MARY ELIZABETH, (1932) A.B., M.A. <i>Research Assistant in Anatomy</i>	1104 Watts Street

\* Resigned, December 31, 1937.

STUBBS, ALSTON, (1935) A.B., LL.B., LL.M. <i>Assistant in Legal Aid Clinic</i>	1120 E. Main Street
TWADDELL, VERA CARR, MRS., (1931) A.B. <i>Assistant in Education</i>	707 S. Duke Street
UPCHURCH, SAMUEL E., (1933) B.A., M.D. <i>Assistant in Surgery</i>	Duke Hospital
*WELLS, WARNER LEE, (1936) A.B. <i>Assistant in Anatomy</i>	Duke Hospital
WILBUR, E. LLOYD, (1935) M.D. <i>Assistant in Pathology</i>	Duke Hospital
WILLIAMS, ROBERT, (1936) A.B., M.D. <i>Assistant in Medicine</i>	Duke Hospital
WISE, NANCY BOWMAN, (1937) A.B., M.D. <i>Assistant in Medicine</i>	Duke Hospital

**INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION  
TRINITY COLLEGE**

AYCOCK, THOMAS MALCOLM, (1937) B.S., M.S. <i>Assistant in Physical Education</i>	2602 Englewood Avenue
CALDWELL, HERSCHEL, (1930) <i>Assistant in Physical Education</i>	920 Buchanan Boulevard
CAMERON, EDMUND McCULLOUGH, (1926) A.B. <i>Assistant in Physical Education</i>	Hope Valley
CARD, WILBUR WADE, (1902) A.B. <i>Assistant in Physical Education</i>	1110 Minerva Avenue
COOMBS, JOHN WESLEY, (1929) B.S. <i>Assistant in Physical Education</i>	101 House DD, Craven Quadrangle
CHAMBERS, ROBERT LUTHER, (1933) B.S. in Ed. <i>Assistant in Physical Education</i>	145 Pinecrest Road
CRICHTON, MARSHALL, (1931) <i>Assistant in Physical Education</i>	Hope Valley
DEAN, DAYTON ROBERT, (1931) A.B. <i>Business Manager of Athletics</i>	403 Union, West Campus
FOGLEMAN, WILLIAM HARRY, (1935) <i>Assistant in Physical Education</i>	2109 Chapel Hill Road
GERARD, KENNETH, (1931) B.S. <i>Assistant in Physical Education</i>	1209 N. Duke Street
HAGLER, ELLIS, (1930) A.B. <i>Assistant in Physical Education</i>	Vance Apartments, Dacian Avenue
LEWIS, HUBERT MURRY, (1937) B.S. <i>Assistant in Physical Education</i>	Duke University
PERSONS, WALTER, (1930) <i>Assistant in Physical Education</i>	West Campus
*ROGERS, THOMAS, (1934) A.B. <i>Assistant in Football</i>	206 Watts Street
WARREN, ADDISON, (1931) A.B. <i>Assistant in Physical Education</i>	1013 Lamond Avenue

\* Resigned, February 1, 1938.

**INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION  
THE WOMAN'S COLLEGE**

BOOKHOUT, ELIZABETH CIRCLE, (1932) A.B., M.S. <i>Instructor in Physical Education</i>	12 Bickett Apartments
DOWLING, MARY LOUISE, (1937) B.S. <i>Instructor in Physical Education</i>	11 Trinity Apartments
LEWIS, MARTHA MODENA, (1933) B.S. <i>Instructor in Physical Education</i>	806 Third Street
WYCHE, ALMA VIRGINIA, (1930) A.B., M.S. <i>Instructor in Physical Education</i>	301 Erwin Apartments
<hr/>	
RAMSEY, SARAH WRAY, (1928) R.N. <i>Resident Nurse</i>	East Campus Infirmary
VESTAL, MOZELLE, (1931) R.N. <i>Resident Nurse</i>	East Campus Infirmary

**FELLOWS AND GRADUATE ASSISTANTS**

**UNIVERSITY FELLOWS**

Anderson, Marcia Lee A.B., Bryn Mawr College; A.M., Duke University	English	2404 Club Boulevard
Brice, Ashbel Green A.B., A.M., Columbia University	English	05-C
Brown, James Wilson B.S., University of Maryland; A.M., Duke University	Forestry	2110 Erwin Road
Burt, Everett Johnson, Jr. A.B., Berea College; A.M., Duke University	Economics	1601 Duke University Road
Correll, Donovan Stewart A.B., A.M., Duke University	Botany	204 Epworth
Coy, Nettie Helena A.B., University of New Brunswick; A.M., Columbia University	Physics	118 Faculty Apartments
Culbreth, Sarah Elizabeth A.B., A.M., Duke University	Zoology	307 Watts Street
Fluegel, Edna Rose A.B., Marywood College; A.M., Duke University	Political Science	Brookings Institution
Garber, Paul Leslie A.B., College of Wooster; B.D., Th.M., Louisville Seminary	Religion	2114 Myrtle Drive Presbyterian Theological
Garren, Kenneth Howard A.B., A.M., Duke University	Botany	704 Buchanan Boulevard
George, Theodore Samuel B.S., Grove City College; A.M., Duke University	Mathematics	1026 Monmouth Avenue
Going, William Thornbury A.B., University of Alabama	English	212 Watts Street
Ligon, Edgar William, Jr. B.S., University of Richmond	Zoology	1004 Minerva Avenue
Moore, Eunice Martha B.S., Maryland College for Women; A.M., Johns Hopkins University	Chemistry	118 Faculty Apartments
Morton, Louis B.S., A.M., New York University	History	213 Epworth

Nelson, Melvin Frederick	Political Science	1411 B Street
B.S., Mississippi State College; A.M., Municipal University of Omaha		
O'Leary, James John	Economics	1000 Lamond Avenue
A.B., A.M., Wesleyan University		
Savely, Harvey Epperson, Jr.	Zoology	Route 1, Box 224
B.S., Mississippi State College		
Taylor, Charles Theodore	Economics	201-Q
B.S., University of Arizona; A.M., Duke University		
Tilley, Nannie May	History	2313 Club Boulevard
A.B., Woman's College of the University of North Carolina; A.M., Duke University		
Vermillion, Herbert Edward	Chemistry	01-C
B.S., Monmouth College		
Wang, Yen-chieh	Forestry	704 Buchanan Boulevard
B.S., National Tsing Hua University; M.S., Cornell University		
*Ward, William Smith	English	302-B
A.B., Georgetown College; A.M., Harvard University		
Wilson, John Woodrow	Zoology	905 Monmouth Avenue
B.S., Duke University		

## GRADUATE ASSISTANTS

Ayers, John Carr	Zoology	1014 Lamond Avenue
A.B., Kalamazoo College; M.S., Kansas State College		
Barbour, William Johnston	Botany	150 Rosemary,
A.B., University of North Carolina		Chapel Hill, N. C.
Bennett, Georgia Belle	Psychology	1111 Urban Avenue
A.B., William and Mary College		
Bevel, Nelle Hester	Zoology	215 Faculty Apartments
B.S., College of the Ozarks; A.M., University of Arkansas		
Black, Henry Arnold	English	106 Epworth
B.S., A.M., Boston University		
Bolen, Claude Waldron	History	201-Q
A.B., Emory and Henry College; A.M., Duke University		
Boomhour, Elizabeth Gregory	Botany	305 Faculty Apartments
A.B., Meredith College; A.M., Cornell University		
Brach, Earl Tilton	Greek	1106 Chapel Hill Street
A.B., Duke University		
Bright, Robert Dietrich	Chemistry	104-A
A.B., Dartmouth College		
Bussell, Wilsie Florence	French	816 Watts Street
A.B., Duke University		
Christenson, James Andreas, Jr.	Psychology	604 Gregson Street
A.B., Harvard College		
Cooper, Gerald Rice	Chemistry	405 Gattis Street
A.B., Duke University		
Cox, Headley Morris, Jr.	English	213-CC
A.B., Duke University		

\* First semester only.

Doty, Roy A., Jr. A.B., Duke University	Education	2200 Chapel Hill Road
Douglass, Elinor Marie A.B., Duke University	English	Box 685, College Station
Duke, Kenneth Lindsay A.B., Brigham Young University	Zoology	905 Sixth Street
Dunsky, Irvin A.B., University of Newark	Sociology	221 Epworth
Ewing, Thomas Newell, Jr. A.B., DePauw University; A.M., Syracuse University	Psychology	2102 Englewood Avenue
Farley, John Thomas B.B.A., Manhattan College	Economics	West Campus
Feister, Irving A.B., Harvard University	Physics	201-B
Fischer, Monroe Carl A.B., Duke University	Economics	307-A
Flanders, Bertram Holland A.B., A.M., Emory University	English	1023 Gloria Avenue
Formwalt, John McClellan A.B., Carson-Newman College	Physics	222 Epworth
Foster, Hazel Elizabeth A.B., Hood College; A.M., Duke University	Political Science	102 Faculty Apartments
Fox, Theodore William A.B., Union College	Chemistry	201-B
Frey, Ellen Frances A.B., Barnard College	English	308 Faculty Apartments
Garrison, John Leland A.B., Duke University	English	2212 Erwin Road
Giesey, Jean Campbell A.B., Barnard College; A.M., Columbia University	Psychology	402 Buchanan Boulevard
Gilbert, Paul Wilner A.B., A.M., University of Rochester	Mathematics	210 Atlas Street
Guyton, Percy Love B.S., Mississippi State College; M.B.A., Northwestern University	Economics	901 Sixth Street
Herndon, Nettie Southworth A.B., A.M., West Virginia University	History	Faculty Apartments
Hodges, Carroll Broadus A.B., M.S., University of Oklahoma	Psychology	Erwin Road
Hopkins, John Isaac B.S., A.M., Duke University	Physics	411 Cook Street
Howie, Naomi A.B., Greensboro College	Religion	302 Faculty Apartments
Jester, Joseph Richardson B.S., Duke University	Botany	409 Gregson Street
Jones, John Sneed B.S., George Peabody College for Teachers; A.M., B.D., Vanderbilt University	Philosophy	1003 Trinity Avenue
Kirby-Smith, John Seldon B.S., University of the South; A.M., Duke University	Physics	209-L



Kuehner, Kenneth George	Education	916 Markham Avenue
A.B., Allegheny College; A.M., University of Pittsburgh		
Laverty, Carroll Dee	English	905 Sixth Street
A.B., A.M., University of Colorado		
Leath, James Milton	Political Science	2003 Club Boulevard
A.B., Austin College; A.M., Southern Methodist University		
Levenson, Morris E.	Mathematics	1004 Minerva Avenue
A.B., M.Sc., New York University		
Louis, William K.	History	105-CC
A.B., Duke University		
Luttrell, Everett Stanley	Botany	1004 Minerva Avenue
B.S., University of Richmond		
Mangrum, James Freed	Zoology	411 Cook Street
B.S., State Teachers College, Memphis, Tennessee; M.S., University of Tennessee		
Marston, Frederic Carver, Jr.	English	922 Sixth Street
A.B., Williams College		
Marston, Helen Mount	Mathematics	922 Sixth Street
A.B., Smith College		
Maryott, Arthur Allen	Chemistry	204-B
A.B., Duke University		
Miles, Ernest Percy, Jr.	Mathematics	1703 Erwin Road
B.S., Birmingham-Southern College		
Millar, Helen Mary	Sociology	306 Faculty Apartments
A.B., McMaster University		
*Miller, Howard Clifford	Physics	
A.B., Bridgewater College		
Miller, William Long	Economics	818 Sixth Street
B.B.A., University of Chattanooga		
Moody, Peter Richard	English	107-A
A.B., Wofford College		
Park, Robert DeForest	Physics	918 Urban Avenue
A.B., Oberlin College		
Peck, Robert Lawrence	Chemistry	819 Third Street
B.S., Duke University		
*Plantinga, Cornelius A.	Philosophy	1106 Chapel Hill Street
A.B., Calvin College; A.M., University of Michigan		
Rein, William Christopher	Education	818 Sixth Street
A.B., Western Maryland College		
Roney, William Hamilton	Sociology	914 W. Markham Avenue
A.B., Occidental College; A.M., University of Michigan		
Ryerson, Clifford Marten	Physics	710 Underwood Avenue
B.S., John B. Stetson University		
Seward, Donald Monfort	Mathematics	Route 1
A.B., John B. Stetson University; A.M., University of North Carolina		
Slay, James Matthew	French	010-V
A.B., Duke University		

\* Second semester only.

Snyder, William Ulrich A.B., Gettysburg College	Psychology	1111 Urban Avenue
Stadthagen, Heinz A.B., Bethany College; A.M., Duke University	Economics	1114 Eighth Street
Stevenson, James Harold B.S., Westminster College; A.M., Oberlin College	Zoology	210 Epworth
Stuckey, James Morlan B.S., Centenary College; A.M., Duke University	Chemistry	01-C
Wade, Luther Irwin A.B., Duke University	Mathematics	Dollar Avenue
Wharton, George Willard, Jr. B.S., Duke University	Zoology	1120 Erwin Road
White, Mary Rebecca A.B., Fairmont State Teachers College; A.M., Duke University	Latin	215 Faculty Apartments
Williams, Myra Allene A.B., Winthrop College; A.M., University of South Carolina.	Zoology	201 Watts Street
Wright, James Clyde A.B., Muskingum College	Psychology	1111 Urban Avenue
Young, DeWalt Secrist A.B., Cornell College	Chemistry	01-C

## GRADUATE SCHOLARS

Bagley, Mariana Dasch A.B., Duke University	History	308 Faculty Apartments
Bethel, James Samuel B.S., University of Washington	Forestry	814 Sixth Street
Brandis, Roland Buford, Jr. A.B., University of Richmond	Economics	814 Sixth Street
Breslow, David Samuel B.S., College of the City of New York	Chemistry	307-C
Bruner, Jerome Seymour A.B., Duke University	Psychology	1101 N. Duke Street
Cain, Herbert Lloyd A.B., Southwestern	Greek	1012 Urban Avenue
*Carlton, John Buford B.S., University of Georgia	Forestry	1109 Erwin Road
Clay, Leo Roderick A.B., Lynchburg College	Psychology	509 Milton Avenue
Colloms, Lester Hubert A.B., Emory and Henry College; B.D., Emory University	Religion	1017 Gloria Avenue
Creegan, Robert Francis A.B., Marietta College; A.M., Duke University	Philosophy	818 Sixth Street
Doty, Cornelia Allen A.B., Stanford University; A.M., Mills College	Education	2200 Chapel Hill Road
Duehring, Frederica Elizabeth A.B., Duke University	History	307 Faculty Apartments
Flora, William Evans Sherlock A.B., College of Wooster	Political Science	207-C

\* First semester only.

Hargreaves, Herbert Walter A.B., University of Nevada; A.M., Clark University	Economics	914 Markham Avenue
Lamas, Petro Charles A.B., Emory University	Greek	1009 W. Trinity Avenue
MacInnes, Donald Boyer A.B., Linfield College	Philosophy	812 W. Main Street
*Morgan, Kenneth James B.S., Cornell University	Forestry	1636 University Drive
Morrison, Garrett Weir A.B., Kansas State Teachers College	Psychology	106 Epworth
Mountjoy, Marjorie A.B., Vanderbilt University	Latin	203 Faculty Apartments
Munster, Ralf Friedrich William A.B., Duke University	Political Science	206-C
Nakamura, Junichi Hiroshima University	English	806 Sixth Street
Nicholson, William Benjamin B.S., A.M., George Peabody College for Teachers	History	2016 Myrtle Drive
**Ostwalt, Jay Harold A.B., Davidson College	Education	512 Milton Avenue
Pohl, Herbert Ackland A.B., Duke University	Chemistry	012-V
Pratt, Lanier Ward A.B., Davidson College	French	213 Epworth
Putney, Anne Randolph Briscoe A.B., Farmville State Teachers College	Political Science	118 Faculty Apartments
Rawlings, Kenneth Winn A.B., Kentucky Wesleyan College; A.M., University of Kentucky	History	05-C
Scarborough, Henry Baldwin A.B., Duke University	Physics	West Campus
Shaw, John Sidney A.B., Duke University	History	918 Urban Avenue
Singer, Armand Edwards A.B., Amherst College	French	2102 Englewood Avenue
Stabler, Carey Vitallis B.S., A.M., University of Alabama	History	2009 Pershing Street
Talbert, Robert Harris A.B., B.S., Southeast Missouri State Teachers College; A.M., University of Missouri	Sociology	208 Buchanan Boulevard
Thomas, Mary Elizabeth A.B., A.M., University of Arkansas	History	306 Faculty Apartments
Tobin, Catherine Elizabeth A.B., College of Charleston; A.M., Duke University	Latin	302 Faculty Apartments
Toole, Eben Richard B.S., New York State College of Forestry at Syracuse University	Forestry	704 Buchanan Boulevard

\* First semester only.

\*\* Resigned, February 1, 1938.

## THE UNIVERSITY LIBRARIES

BRANSCOMB, BENNETT HARVIE, A.B., B.A., M.A., Ph.D.  
*Director* Hope Valley

LAND, WILLIAM GOODFELLOW, A.B., A.M.  
*Assistant Director* Hope Valley

## GENERAL LIBRARY

BREEDLOVE, JOSEPH PENN, A.B., A.M.  
*Librarian* 407 Watts Street

LUND, JOHN JORGENSEN, A.B., Ph.D., Certificate in Librarianship  
*Head of Order Department* 1015 Gloria Avenue

MALONE, EVA EARNSHAW, A.B., B.S.  
*Assistant Librarian in Charge of Cataloguing* 512 Watts Street

NUERMBERGER, GUSTAVE ADOLPH, A.B., A.M., Ph.D.  
*Acting Head of Reference Division* 1601 Club Boulevard

PRATT, ELLIS CARL, A.B.  
*Acting Head of Circulation Division* 914 Sixth Street

BONNER, BERNICE, MRS.  
*Clerical Assistant in Acquisition Division* 515 S. Duke Street

BOYD, MARY ELIZABETH, A.B., B.L.S.  
*Assistant Reference Librarian* 216 Faculty Apartments, East Campus

BURCH, VELLA JANE, A.B., A.M., A.B. in L.S.  
*Cataloguer* 316 North Elizabeth Street

COBB, BERTHA ELIZABETH, A.B., B.A. in L.S.  
*Assistant in Cataloguing Division* 1112 N. Duke Street

COVINGTON, LENA, A.B.  
*Assistant in Acquisition Division* 1008 Monmouth Avenue

CREWS, SUDIE ELIZABETH  
*Assistant in Acquisition Division* 1004 W. Trinity Avenue

\*DIENES, MARY, A.B., A.M.  
*Assistant in Acquisition Division* 806 Third Street

DUKE, LUCRETIA BURGESS, MRS.  
*Secretary to the Assistant Director* 905 Sixth Street

EVINS, SARAH ELFORD, B.S., B.A. in L.S.  
*Assistant in Charge of Preliminary Cataloguing* 216 Faculty Apartments

FAUCETTE, MARY ELIZABETH, A.B.  
*In Charge of Graduate Reading Room* 610 E. Trinity Avenue

FRAZIER, ROSE MARIE, B.S., B.M., A.B.  
*Cataloguer of Documents* 702 Buchanan Boulevard

GANTT, EVA GOLDIE, A.B.  
*Assistant in Acquisition Division* 520 S. Duke Street

GANTT, HAZEL ANN, A.B.  
*Junior Cataloguer* 520 S. Duke Street

GREEN, JANE, A.B., B.A. in L.S.  
*Assistant in Acquisition Division* 1004 W. Trinity Avenue

GUAGENTY, MARY CLEMENTINE, A.B., A.M.  
*In Charge of Chemistry Library* 1004 Monmouth Avenue

\* Resigned, January 31, 1938.

- HELMAN, EUGENIE, MRS.  
*In Charge of Engineering Library* 1007 Glendale Avenue
- HEWITT, ANNE STROWD, MRS., A.B.  
*Secretary to the Director* 901 Mangum Street
- HIX, EDWIN JONATHAN, A.B.  
*Assistant in Circulation Division* Duke University Road
- HOBBS, SARAH BLANCHARD, MRS., A.B., B.S.  
*Cataloguer* Powe Apartments, Buchanan Road
- IZARD, ANNE REBECCA, A.B.  
*Junior Cataloguer* Chapel Hill Road
- JAFFE, LILLIAN DOROTHY  
*Typist in Cataloguing Division* 704 Roxboro Street
- JETT, FLORENCE LEIGH, A.B., A.B., in L.S.  
*Assistant in Acquisition Division* 1011 Monmouth Avenue
- JOYNER, WILLIAM EPPIE, A.B.  
*In Charge of Reserve Book-Room* Duke Station
- KEEN, EUNICE, A.B., B.A. in L.S.  
*Cataloguer* 411 Cleveland Street
- KLEIN, LENETTA GARRETT, MRS., Certificate in Librarianship  
*Cataloguer* 919 Second Street
- LINEBERRY, FOY, A.B., B.A. in L.S.  
*Cataloguer* Apartment 4, Eloise Apartments
- MERRITT, GERTRUDE, A.B.  
*Assistant in Acquisition Division and Junior Cataloguer* 2 Bickett Apartments
- MORGAN, KATHERINE, MRS., A.B.  
*In Charge of Physics Library* 622 Swift Avenue
- MYERS, MILDRED FLORENCE, A.B., B.S. in L.S.  
*Cataloguer* 704 Buchanan Boulevard
- NICHOLSON, JOHN BURTON, JR., A.B., A.M., B.S.  
*Assistance Reference Librarian* 702 Buchanan Boulevard
- NUERMBERGER, RUTH KETRING, MRS., A.B., A.M., Ph.D.  
*In Charge of Manuscripts Department* 1601 Club Boulevard
- OYLER, HELEN, A.B., B.S. in L.S.  
*Head Classifier* 704 Buchanan Boulevard
- PARKER, WIXIE ELMA, A.B., B.S. in L.S.  
*In Charge of Periodical Department* 103 Erwin Apartments
- POOLE, MARY ELIZABETH, A.B., B.A. in L.S.  
*Assistant Cataloguer of Documents* Apartment 4, Eloise Apartments
- RAMAGE, MARY ALLENE, A.B., B.A. in L.S.  
*In Charge of Newspaper Department* 1003 Monmouth Avenue
- RICKARD, REBA COUSINS, MRS., A.B.  
*In Charge of Work Room* 1102 N. Duke Street
- ROSE, ETHEL ABERNETHY, MRS., A.B.  
*Cataloguer* 603 Watts Street
- SAVELY, BALSORAH PATTERSON, MRS., B.S.  
*In Charge of Biology Library* R. F. D. No. 1, Durham, N. C.

- \*SEABOLT, RUTH, A.B. in L.S.  
*Cataloguer* 14 Faculty Apartments, East Campus
- SHARPE, NANCY ELIZABETH  
*Clerical Assistant in Acquisition Division* 1303 Lakewood Avenue
- SHUFORD, MARY OPAL, A.B.  
*Typist in Catalogue Division* 805 Sixth Street
- TATUM, WILLIAM GILCHRIST, JR., A.B.  
*Assistant in Periodical Department* 1200 College Road
- THOMPSON, SARAH WRAY, A.B.  
*In Charge of Business Division of the Order Department* 208 Buchanan Boulevard
- WESCOTT, MARY, A.B., B.S.  
*First Assistant in Cataloguing Division* 1008 Monmouth Avenue
- WILKERSON, LULA HUNT, MRS.  
*Secretary to the Librarian* 813 Buchanan Road
- WILLIFORD, ANNIE MAY, A.B., A.M., Ph.D.  
*Assistant in Manuscripts Department* Faculty Apartments, East Campus
- WOODALL, EVA AVERY, A.B.  
*In Charge of School of Religion Library* 1003 Monmouth Avenue
- YOUNG, DORA DAPHNE  
*Typist in Cataloguing Department* 834 Mangum Street

## WOMAN'S COLLEGE LIBRARY

- GRIGGS, LILLIAN BAKER, MRS., B.A. in L.S.  
*Librarian* 915 Monmouth Avenue
- \*\*BALDWIN, GRAYSON, A.B., B.S.  
*Chief of the Circulation Department* 904 Vickers Avenue
- HARRISON, EVELYN JENNINGS, A.B., B.S. in L.S.  
*In Charge of Cataloguing* 1008 Monmouth Avenue
- HICKS, MRS. SPEARS, A.B., A.B. in L.S.  
*Chief of the Reference Department* 121 W. Seeman Street
- MARTIN, CAROLINE, A.B., A.B. in L.S.  
*Cataloguer* 208 Watts Street
- MONTGOMERY, MARGARET ELIZABETH, A.B.  
*Chief of Periodical Department* 205 Faculty Apartments, East Campus
- TUDOR, FRANCES, A.B.  
*Assistant in Circulation Department* 207 Watts Street

## LAW LIBRARY

- ROALFE, WILLIAM ROBERT, LL.B.  
*Librarian* 1109 N. Gregson Street
- COVINGTON, MARY SIMMONS, A.B., LL.B.  
*Research Librarian* Faculty Apartments
- DAY, KATHERINE, B.S.  
*Assistant Cataloguer* 1 Bickett Apartments
- LONG, MARIANNA, A.B., B.S. in L.S.  
*Head Cataloguer* 1008 Monmouth Avenue

\* Resigned, December 31, 1937.

\*\* Resigned, April 28, 1938.



MANGUM, HAZEL  
*Assistant in Order Division*

110 Buchanan Road

WALKER, ANNIE CARPENTER, MRS.  
*Secretary to the Librarian*

2121 West Pettigrew Street

#### MEDICAL SCHOOL LIBRARY

FARRAR, JUDITH, A.B., B.S.  
*Librarian*

177 Faculty Apartments, East Campus

#### UNIVERSITY CHAPEL

HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D.  
*Dean of the Chapel*

Buchanan Road

BARNES, JAMES FOSTER, A.B., A.M.  
*Director of Choral Music*

703 Watts Street

BREES, ANTON  
*University Carillonneur*

1308 College Road

BROADHEAD, EDWARD HALL, A.B., A.M.  
*University Organist*

1001 Watts Street

\*CUNNINGGIM, AUGUSTUS MERRIMON, A.B., B.A. (Oxon.), A.M.  
*Acting Director of Religious Activities*

West Campus

#### PHYSICAL EDUCATION AND STUDENT HEALTH

SPEED, JOSEPH ANDERSON, M.D.  
*Director of Student Health*

913 Dacian Avenue

FLETCHER, JUNE THOMAS, MRS., A.B., M.D.  
*Physician, Woman's College*

WADE, WALLACE, A.B.

*Director of Physical Education, Trinity College*

West Campus

GROUT, JULIA REBECCA, A.B., M.S.

*Director of Physical Education, Woman's College*

104 Faculty Apartments, East Campus

#### SOCIAL AND MUSICAL ACTIVITIES

BARNES, EVELYN, B.S.

*Assistant Social Director of the Woman's College,  
 Head of Alspaugh House*

Alspaugh House

BARNES, JAMES FOSTER, MRS.

*Director of the Woman's College Musical Clubs*

703 Watts Street

CHAFFIN, NORA CAMPBELL, A.B., A.M.

*Head of Bassett House*

Bassett House

FEARING, ROBERT BEVERIDGE

*Director of the College Orchestras and Band*

703 Watts Street

\* Absent on leave, 1938-1939.

KESTLER, MARY, A.B., A.M. <i>Head of Jarvis House</i>	Jarvis House
MEADE, MARY E., A.B. <i>Head of Aycock House</i>	Aycock House
PEMBERTON, MARY NORCOTT, MRS. <i>Hostess, West Campus Union</i>	Kilgo Quadrangle, West Campus
TAYLOR, HARRIET, MRS. <i>Head of Giles House</i>	Giles House
UPCHURCH, WALTER MCGOWAN, JR., A.B., LL.B. <i>Financial Adviser, Student Activities</i>	Faculty Apartments



# UNDERGRADUATE INSTRUCTION

(Trinity College and the Woman's College)

AND

MISCELLANEOUS INFORMATION

1937-1938

ANNOUNCEMENTS FOR 1938-1939

## THE COLLEGES

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### GENERAL STATEMENT

Duke University offers in Trinity College and the Woman's College three academic degrees for undergraduate work: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Civil, Electrical, or Mechanical Engineering. Ten groups of studies lead to the degree of Bachelor of Arts, and two groups of studies lead to the degree of Bachelor of Science. These groups are designated by Roman numerals in the order in which they are described. For a description of these groups, see the section elsewhere in this catalogue under the topic "Groups of Studies for the Degree of Bachelor of Arts."

### TRINITY COLLEGE

Trinity College is the undergraduate college for the men of Duke University and is situated on the West Campus along with the Graduate School of Arts and Sciences, the School of Law, the School of Medicine, the School of Nursing, the School of Forestry, and the School of Religion. The Division of Engineering is situated on the East Campus, apart from the Woman's College.

### THE WOMAN'S COLLEGE OF DUKE UNIVERSITY

The Woman's College of Duke University is a college of arts and sciences within the University which provides for the instruction of undergraduate women as Trinity College provides for the instruction of undergraduate men.

The teachers of the College, many of whom teach also in Trinity College, are members of the University Faculty and are selected in co-operation with the several departments of instruction just as in the case of teachers for Trinity College, thus assuring a uniform educational standard. Graduates of the Woman's College, as graduates of all other colleges and schools within the University, receive their degrees from Duke University.

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### THE LIBRARIES

The Library resources of the University total 487,592 volumes and approximately 441,503 manuscripts. Fifty-five domestic and twenty foreign current newspapers, in addition to 2,796 current periodicals and journals, are received.

## ADMISSION TO COLLEGE

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### GENERAL REGULATIONS

Admission to Trinity College and to the Woman's College of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability.

### UNITS OF ADMISSION

The academic requirements for admission are defined in terms of units. A unit of credit is allowed for a subject of study pursued throughout an academic year at an accredited secondary school, if the course has demanded five recitations a week and the prescribed amount of work has been completed satisfactorily. Credit for fifteen units is required for admission.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

UNITS		UNITS	
English .....	4	Woodworking, Forging, and	
History and Social Studies.....	4	Machine Work .....	2
Latin .....	4	Art .....	1
Mathematics .....	4	Botany .....	1
Spanish .....	3	Chemistry .....	1
French .....	3	Economics .....	1
German .....	3	General Biology .....	1
Greek .....	3	General Science .....	1
Commercial Subjects .....	3	Music .....	1
Agriculture .....	2	Physical Geography .....	1
Household Economics .....	2	Physics .....	1
Mechanical Drawing .....	2	Sociology .....	1
		Zoology .....	1

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

### ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.



At least twelve of the fifteen units required for admission must come from the following:

	UNITS		UNITS
English .....	3 to 4	Mathematics .....	2 to 4
Foreign Language .....	2 to 6	Science .....	1 to 4
History and Social Studies....	1 to 4		

These twelve units must include three in English and two in mathematics. The units in mathematics must include one in algebra and one in plane geometry.

The three additional units necessary to make the required fifteen may come from the list above or from the larger table of units of admission.

### ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University are required to validate their units by entrance examinations and such other tests as the University may prescribe.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by examinations.

### ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions: all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester-hours of work approved for Seniors, with an average grade of "C," is required of all candidates for the Bachelor's degree.

Students enrolling for the Bachelor's degree who transfer from junior colleges or from four-year colleges not affiliated with the Southern Association, or a similar regional association, are under all circumstances required to continue for at least one semester in Trinity College and in the Woman's College the foreign language they present for minimum graduation requirements.

Students who have transferred from junior colleges or from four-year colleges not affiliated with the Southern Association, or a similar regional association, must present laboratory notebooks in all science courses that are offered for advanced credit.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year-courses with an average grade of "C" or higher.

### FRESHMAN WEEK

The week immediately preceding the opening of college is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given, on the basis of which Freshmen are sectioned in English, mathematics, and foreign languages. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to the new environment. Attendance upon these exercises is required of all Freshmen.

### SPECIAL STUDENTS

Students of mature age may, upon approval by the Dean, be admitted as special students and allowed to enroll for such work as they are prepared to carry.

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

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### GENERAL REGULATIONS

The requirements for the degree of Bachelor of Arts are designed to give the students such training in certain fundamental subjects as is essential for intelligent, educated citizens. The requirements also provide the opportunity for as wide an election as possible from courses of study which are both interesting and practically helpful in connection with vocations the students plan later to pursue.

Credit for one hundred and twenty-two semester-hours, on which an average grade of "C" must be made, is required for the degree of Bachelor of Arts in all groups. In addition to these requirements all candidates for the Bachelor of Arts must complete, with an average grade of "C" or better, physical education to the equivalent of six semester-hours. In Trinity College the physical education requirement is completed by the end of the Sophomore year; in the Woman's College, by the end of the Junior year.

The Faculty has authorized the groups of studies below for the guidance of students in selecting the work required for graduation. A student is free to choose any group he may desire. The several groups are designed to be of special value in a chosen profession and at the same time to provide a well-balanced course of study. With the approval of the Dean a student may at any time transfer from one group to another. In such transfers, work done in one group and not prescribed in the other will count as general elective credit, but all work prescribed in the new group must be completed before the student can be graduated.

No student is permitted to take less than fourteen semester-hours of work without special permission from the Dean; to take more than the normal load of work (fourteen to seventeen semester-hours) unless his average grade in the preceding semester is higher than "C"; or, under any conditions, to take more than nineteen semester-hours of work, exclusive of required physical education.

### SPECIAL REGULATIONS

The following special rules applying to the selection of courses are authorized by the Faculty:

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Arts degree is limited to a maximum of thirty-six semester-hours; with the exception that a student whose principal work is in the Departments of English, Economics, or Romance Languages may be permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

Candidates for the degree of Bachelor of Arts whose courses of study permit may elect work from the following subjects: engineering, not to exceed eighteen semester-hours; forestry, not to exceed eighteen semester-hours. The courses elected in these departments must be those approved by the Council on Undergraduate Instruction as appropriate for the Bachelor of Arts degree and published in the *Bulletin of Undergraduate Instruction*. The classification of these courses, as they affect divisions of concentration and restricted electives, is left to the student's major adviser and to the Dean.

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

Not more than one course of six or eight semester-hours of credit in final fulfillment of the requirements for the degree of Bachelor of Arts in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

### MINIMUM UNIFORM REQUIREMENTS FOR ALL GROUPS

The following requirements are authorized for all groups:

	S.H.
English Composition*	6
Natural Science**	8
Economics, History, or Political Science***	6
Religion	6

In addition to the above requirements, at least the third college year of a foreign language must be completed.\*\*\*\*

Of these minimum requirements, at least three courses, including English and foreign language, should be taken in the Freshman year, and all of them, except foreign language and religion, by the end of the Sophomore year.

The courses primarily open to Freshmen and the courses that will satisfy the requirements in history, science, and religion are listed under "Courses of Instruction."

\* This requirement is normally met by the completion of English 1 and 2. However, a Freshman who satisfies the Department of English of his superior ability in composition may substitute another English course for the normal requirement.

\*\* A student who does not present for entrance an acceptable unit of science must take sixteen semester-hours of science for graduation.

\*\*\* A student who does not present for entrance two acceptable units of history (exclusive of other social science work) must take history as his required work; otherwise, he may fulfill this requirement in any one of the three subjects.

\*\*\*\* Students who begin their language requirements in college are expected to follow the sequence of courses laid down by the department whose work they take and can omit only such course or courses as may be approved both by the department and the office of the Dean. Students who are granted the privilege of completing their language requirement by taking only six semester-hours in college must first pass, with at least a grade of "C," a special examination covering the work of the second college year. In addition, they must make at least an average of "C" on the work of the third college year. If a Freshman presents for entrance four units of Latin, he may satisfy his language requirements by taking either two years of Latin or two years of Greek.

## GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF ARTS

### GROUP I

#### GENERAL

This group is based on the traditional requirement for the degree of Bachelor of Arts. Students who choose it must complete the minimum uniform requirements for graduation; forty-two semester-hours in a division of concentration, exclusive of courses open primarily to Freshmen (in the Division of the Natural Sciences a maximum of eight hours of Freshman work is permitted in the forty-two hours mentioned above); twelve semester-hours of restricted electives in the other divisions; and free elective work sufficient to complete, with an average grade of "C," the one hundred and twenty-two semester-hours necessary for graduation. The departments of instruction, for purposes of concentration, are grouped in three divisions:

**Humanities:** English, Fine Arts, German, Greek, Latin, Music, Philosophy, Romance Languages.

**Social Science and History:** Economics, Political Science, Education, History, Religion, Sociology.

**Mathematics, Psychology, and Natural Science:** Botany, Chemistry, Geology, Mathematics, Physics, Psychology, Zoology.

The forty-two semester-hours in the division of concentration must be distributed as follows: eighteen to twenty-four semester-hours in a major department and eighteen to twenty-four semester-hours in at least two other departments of the same division with a minimum of six semester-hours in each department. The minimum number of hours required by the department for a major shall not include any course open primarily to Freshmen. Introductory courses above the Freshman level are to be counted or not at the discretion of the department concerned.

For purposes of concentration certain courses listed in the same department are considered as being in different departments; namely, courses in French, Italian, and Spanish. Likewise, courses in economics and business administration are reckoned as being in different departments. Also, a student taking his major work in English literature may count courses in English composition, dramatic technique, or public speaking as part of his related work in the same division.

The twelve semester-hours of restricted electives must be taken in one or both of the divisions not chosen for concentration, with a minimum of six semester-hours in any one department of these divisions.

Attention is called here to a special regulation governing all groups leading to the Bachelor of Arts degree which limits the amount of work a student, other than an Honors student, may take in any one department to a maximum of thirty-six semester-hours, with the proviso that a student whose principal work is in the Departments of English, Economics, or Romance Languages is permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.



The remaining hours necessary for graduation, after the minimum uniform requirements, the division of concentration, and the restricted electives are satisfied, are open as free electives.

## GROUP II

### BUSINESS ADMINISTRATION

This group is designed for students who enter college with the purpose of engaging in some form of business activity after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Economics 11, Mathematics 3-4.  
 Sophomore Year: Economics 51-52, 57-58, Political Science 61-62.  
 Junior Year: Economics 143, 138.\*  
 Senior Year: Economics 181-182, 203-204.

In addition to the courses specified above, a student in this group must elect twenty-one semester-hours from other courses in the Department. Six semester-hours of this elective work shall be selected from courses in the two-hundred group offered for Seniors and Graduates. With the permission of the Head of the Department students planning to take the examination to qualify as a Certified Public Accountant may be released from this requirement.

All elective work in economics must be approved in writing by some instructor offering advanced work in the Department.

## GROUP III

### RELIGION

This group is designed for students who plan to enter the ministry or other religious work as a vocation after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Religion 1-2.  
 Sophomore Year: Religion (6 hours), Economics 51-52 or Political Science 61-62, English Literature (6 hours).  
 Junior Year: Religion (6 hours), Psychology 101 and either Psychology 102 or Philosophy 104.  
 Senior Year: Religion\*\* (12 hours), Sociology (6 hours), Philosophy (6 hours).

\* With the permission of the Department, students specializing in accounting may substitute for this course one in that subject.

\*\* Not more than six semester-hours of electives may be taken in the Department of Religion.



**GROUP IV****PRE-MEDICAL**

Students qualifying for college graduation in this group must complete, in addition to the minimum uniform requirements, forty-two semester-hours in a division of concentration (subject to the regulations of the General Group), twelve semester-hours of restricted electives in one or both of the other divisions with at least six semester-hours in one department, and certain specific requirements as noted below. These specific requirements may count as part of the divisional concentration (if the division of concentration is the Natural Sciences) or they may count as restricted electives if another division of concentration is chosen. The foreign language should be German or French, preferably the former and including German 107-108.

The following arrangement of the courses in science is suggested:

Freshman Year: Chemistry 1-2, Zoology 1-2, Mathematics 1-2 or 7-8.

Sophomore Year: Chemistry 61-70, Physics 51-52.

Junior Year: Chemistry 151-152.

**GROUP V****COLLEGE TEACHING**

This group is designed for students who plan to do work in a graduate school and teach in college. The required work consists of the minimum uniform requirements and the work specified below:

French and German through the second year of college work.\* Since one of these languages may be taken through the third year of college work to satisfy the minimum uniform requirements, only the one not taken thus must be chosen to meet the conditions of this group.

Twenty-four semester-hours of work in the major subject, exclusive of work in the subject offered primarily for Freshmen; twelve semester-hours of work in related subjects approved by the student's Departmental Adviser; twelve semester-hours in education, philosophy, and psychology, or in any one, not including any courses in secondary or elementary school methods.

Elective work, not to be taken in the major department, sufficient to complete the one hundred and twenty-two semester-hours necessary for graduation.

At least twelve semester-hours of the work taken in the Senior year must be in courses open only to Seniors and Graduates.

**GROUP VI****PUBLIC SCHOOL TEACHING**

This group is designed for two classes of students: (a) those who plan to teach in secondary schools; (b) those who plan to teach in elementary schools.

\* Greek or Latin may be substituted for either French or German.

The required work consists of the minimum uniform requirements and the requirements listed under one of the classes below, according as the student expects to teach in a secondary school or in an elementary school.

**CLASS A: SECONDARY SCHOOL TEACHING**

Students in this class are required to take:

Eighteen semester-hours in education, of which three semester-hours may be in general psychology. The work in education must include three semester-hours in directed observation and practice teaching, three semester-hours in educational psychology, and three semester-hours in secondary education.

Six semester-hours, three each, in materials and methods, in two fields of high-school teaching.

Work in the subject matter of the two subjects the student intends to teach, sufficient to satisfy the minimum requirements as listed in the table below:

English, twenty-four semester-hours, to include the six of required work in composition, six in English literature, and six in American literature.

French, eighteen semester-hours, based on the usual two units for admission. German, Spanish, and Greek, the same requirements as for French.

History, eighteen semester-hours, including six each in American, ancient and medieval, and modern European history, and six semester-hours of economics or political science. It is recommended to prospective teachers of history and related subjects that they take elective work in sociology, geography, and at least a semester each in economics and political science.

Latin, eighteen semester-hours based on the traditional four units for admission.

Mathematics, fifteen semester-hours.

Physical Education, twelve semester-hours.

Science, thirty semester-hours, including elementary courses in biology, chemistry, physics, and geography or geology.

A student may prepare to teach only one high-school subject by taking a major of twenty-four semester-hours in that subject (physical education excepted) in addition to the general required work in Class A, the required work in education and psychology, and the specifically required work in directed observation and materials and methods in the subject chosen.

Elective work sufficient to complete the one hundred and twenty-two semester-hours for graduation. It is recommended that the elective work be chosen in the two subjects the student is preparing to teach and in the Division of Social Science, provided the total amount of work taken in any department may not exceed the total allowed in Group I.

Students who are preparing to teach are warned to read carefully the certification rules of the state in which they are going to teach and to advise fully with the Dean before electing courses in subjects they are preparing to teach. They are further warned to take their professional courses in the order outlined by the Department of Education, reserving for their Senior year courses in materials and methods and in directed observation and practice teaching.

At least twelve semester-hours of the work in the Senior year must be in courses open only to Seniors or to Seniors and Graduates.

#### CLASS B: ELEMENTARY SCHOOL TEACHING

Students in this class conform to the general requirements of Group I. Education is treated as a major department, and the Social Science Division as the division of concentration. In addition to the general requirements of Group I, the following specific requirements must be met:

	S.H.
English .....	3 or 6
American History and Government .....	6 or 9
Geography .....	6
Physical Education and Hygiene .....	6

These special requirements are reckoned in each case as a part of the appropriate division of concentration. The student in Class B should take Education 8 in the first semester of his Freshman year and advise with the Department as to an appropriate course for the spring semester. In all other particulars his course follows the General Group for the first year.

The following arrangement of courses is recommended for Freshmen entering the Teaching Group. The work for the following years will be arranged by the Department of Education.

#### FRESHMAN YEAR

	S.H.
English .....	6
Foreign Language .....	6
Science .....	8
History or elective* .....	6
Education or elective** .....	6
	<hr/>
	32

#### GROUP VII

##### PRE-LEGAL

This group is designed for students who expect to study law after graduation. The required work consists of the minimum uniform requirements\*\*\* and the courses specified below.

The following arrangement of specified courses is recommended:

Freshman Year: Introductory Course in History (1-2 if taken in the Freshman year or 51-52 if taken thereafter).

Sophomore Year: Economics 51-52, Political Science 61-62.

\* History is an alternate with economics or political science in the minimum requirements when the student presents two units of history for admission.

\*\* Students in Class B should take Education 8 the first semester and follow it with the course approved by the Department of Education the second semester; students in Class A follow the same plan or take any of the electives authorized for the General Group.

\*\*\* When there is overlapping, the minimum uniform requirements are accepted as a part of the special requirements in this group.

- Junior Year: Economics 143, History 105-106, Psychology 101, and either English 151 or 152.
- Senior Year: Six semester-hours of Economics from courses approved for Seniors.

The electives should be chosen largely from the work offered by the following departments: Philosophy, Sociology, Economics, History, Psychology, and Political Science. The total work (required and elective) in any one department may not exceed thirty semester-hours.

At least twelve semester-hours of the electives in the Senior year must be Senior-Graduate courses.

### GROUP VIII

#### SOCIAL SERVICE

This group is designed for students who purpose after graduation to pursue professional studies in order to engage in practical social welfare work, such as family welfare, child welfare, public welfare, probation and parole, and similar forms of neighborhood and community work. The required work consists of the minimum uniform requirements and the courses specified below. Zoology is recommended for the required course in science.

The following arrangement of specified courses is recommended for students electing this group:

- Freshman Year: History 1-2.
- Sophomore Year: Economics 51-52, Sociology 91-92 or Sociology 101.
- Junior Year: Philosophy (6 hours), Political Science (6 hours), Psychology 101, Sociology (6 hours).
- Senior Year: Economics (6 hours), Psychology (6 hours), Sociology (6 hours).

The electives should be chosen mainly from history, economics, political science, education, sociology, philosophy, psychology, and religion.

The subjects required for the Junior and Senior years may be transposed according to the courses available in any particular year.

### GROUP IX

#### ACADEMIC-LAW COMBINATION

Students in either of the Liberal Arts Colleges of Duke University may complete in six years a combined course whereby they will receive their academic degree and also the degree of Bachelor of Laws. This arrangement is made possible under the following recommendations of the Faculty of the Arts Colleges:

Students who have completed with not less than a "C" average at least ninety-six semester-hours of undergraduate work, including both the minimum uniform and the specific requirements, in the Pre-Legal Group of

studies in Duke University may on the approval of the Dean of the undergraduate college transfer to the Law School of Duke University and become eligible for the Bachelor's degree on the satisfactory completion of the full twenty-six semester-hours of work of the first-year class in this school.

It is understood that this provision shall apply solely to eligible Duke University undergraduates, and that not less than the full first-year's work of the Law School will be acceptable for credit towards the Bachelor's degree.

## GROUP X

### HONORS

*Purpose:* Students who have revealed their desire and demonstrated their ability to do a type of intellectual work higher than that normally required for the liberal arts degree may apply to read for Honors during their last two college years. The aim of the Honors studies is to permit qualified undergraduates to attain a knowledge, both comprehensive and intensive, of a particular field, or fields, under conditions most stimulating to individual initiative and independence.

*Departmental and Divisional Honors:* At present two distinct kinds of Honors work are available to qualified undergraduates: (1) departmental and (2) divisional. Several of the departments offer a Departmental Honors course, administered in each case by a Departmental Committee. It consists of tutorial and course work in the major department, combined with course work in related departments. The Divisional Honors course provides a means for the correlation of three subjects, one major and two minors, within a division of concentration (e.g., the Social Sciences) and is administered by a Divisional Committee. It consists of Honors readings with seminarial guidance and instruction largely or wholly independent of courses. The standard of achievement in both plans is the comprehensive examination at the end of the Senior year.



# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

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## GENERAL REGULATIONS

The general regulations governing the requirements for the degree of Bachelor of Science are the same as those for the degree of Bachelor of Arts.

## SPECIAL REGULATIONS

The following special rules applying to the selection of courses are authorized by the Faculty:

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Science degree is limited to a maximum of thirty-six semester-hours; provided that a student whose principal work is in a department containing several sub-departments is permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

Not more than one course of six or eight semester-hours of credit in final fulfillment of the requirements for the degree of Bachelor of Science in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

## MINIMUM UNIFORM REQUIREMENTS FOR ALL GROUPS

The following requirements are authorized for all groups:

	S.H.
Economics, History, or Political Science*	6
English Composition**	6
French*** (second college year)	6-12
German*** (second college year)	6-12
Mathematics	6
Natural Science****	16
Religion	6

\* A student who does not present for entrance two acceptable units of history (exclusive of other social science work) must take history as his required work; otherwise, he may fulfill this requirement in any one of the three subjects.

\*\* This requirement is normally met by the completion of English 1 and 2 or 4. However, a Freshman who satisfies the Department of English of his superior ability in composition may substitute another English course for the normal requirement. If a student fails to pass English 1-2 with a grade of "C" or better, he must complete three additional semester-hours of composition.

\*\*\* All candidates for the degree of Bachelor of Science must complete at least the second year of both college French and college German or their equivalent as determined by examination.

\*\*\*\* All candidates for the degree of Bachelor of Science must complete eight semester hours in each of two elementary sciences.



Of these minimum requirements, at least three courses, including English and foreign language, should be taken in the Freshman year, and all of them, except foreign language and religion, by the end of the Sophomore year.

The courses primarily open to Freshmen and the courses that will satisfy the requirements in history, science, and religion are listed under "Courses of Instruction."

## GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE

### GROUP I

#### GENERAL

Students who choose this group are required to complete the minimum uniform requirements for graduation; forty-eight semester-hours in the Division of Mathematics, Psychology, and Natural Science, of which not less than twenty-four nor more than thirty-two semester-hours may be taken in a major department (the hours prescribed in the major department may not include a course primarily open to Freshmen); and free elective work sufficient to complete, with an average grade of "C," the one hundred and twenty-two semester-hours necessary for graduation.

The student's major work must be in botany, chemistry, forestry, geology, mathematics, physics, psychology, or zoology.

Attention is called here to a special regulation governing all groups leading to the Bachelor of Science degree which limits the amount of work a student, other than an Honors student, may take in any one department to a maximum of thirty-six semester-hours, with the proviso that a student whose principal work is in a department containing any approved sub-departments is permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

### GROUP II

#### PRE-FORESTRY

This group of studies is designed for students who intend to pursue the study of forestry, particularly as a profession. The first three years are given largely to fundamental and auxiliary subjects basic to a proper understanding of the more specialized work in technical forestry, which ordinarily requires two additional years to complete. The fourth year of this curriculum is devoted entirely to the first year of technical forestry. Upon the satisfactory completion of this 4-year pre-forestry curriculum a student is eligible for a Bachelor of Science degree from Duke University. With this basic preparation it is possible to obtain the professional degree of Master of Forestry in one additional year of work taken in the School of Forestry (see *Bulletin of the School of Forestry*).

The following arrangement of courses is recommended for students electing this group:

*Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Botany 1 .....	4	Botany 2 .....	4
Physics 1 .....	4	Physics 2 .....	4
English 1 .....	3	English 2 .....	3
Foreign Language .....	3	Foreign Language .....	3
	<hr/> 14		<hr/> 14

*Sophomore Year*

Chemistry 1 .....	4	Chemistry 2 .....	4
Mathematics 7* .....	3	Mathematics 8* .....	3
Religion .....	3	Botany 52 .....	4
Engineering Drawing 1 .....	2	Engineering Drawing 2 .....	2
Foreign Language .....	3	Foreign Language .....	3
	<hr/> 15		<hr/> 16

*Junior Year*

Botany 151 .....	4	Botany 156 .....	4
Geology 51 .....	4	Forestry 52 .....	2
Economics 51 .....	3	Economics 52 .....	3
Foreign Language .....	3	Foreign Language .....	3
		Religion .....	3
	<hr/> 14		<hr/> 15

Summer Field Work: 12 weeks to include Civil Engineering S110 (Plane Surveying), 3 s.h.; Forestry S150 (Forest Surveying), 5 s.h.; Forestry S151 (Forest Mensuration), 4 s.h., which are required for further work in forestry.

*Senior Year*

Forestry 211 .....	3	Forestry 212 .....	3
Forestry 251 .....	2	Forestry 224 .....	4
Forestry 253 .....	3	Forestry 252 .....	2
Forestry 259 .....	3	Forestry 264 .....	3
Forestry 261 .....	3	Forestry (Elective) .....	3
Forestry 273 .....	3		
	<hr/> 17		<hr/> 15

All elective courses must be selected in consultation with the Forestry Staff.

\* Students who do not qualify for Mathematics 7-8 may substitute Mathematics 1-2.

# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

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## GENERAL STATEMENT

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, or mechanical engineering, as a profession, and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E.

Each of these degrees requires one hundred and thirty-eight semester-hours of work of which one hundred and twenty-two must be completed with an average grade of "C." If a foreign language is elected, it must be taken two years unless a student has sufficient entrance credits to enable him to pursue a more advanced course.

Prospective students in engineering should note that immediately after the final Freshman examination in May or June they are required to attend a three weeks' course in plane surveying given under the direction of the Summer School.

## ADMISSION TO ENGINEERING COURSES

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one-fourth of the annual amount of work regularly required in the school.

At least nine and one-half of the fifteen units required for admission must come from the following:

### *Required Units*

English .....	3 units
A Foreign Language .....	2 units
‡Science .....	1 unit
History .....	1 unit
*Algebra .....	1½ or 2 units
Plane Geometry .....	1 unit

### *Elective Units*

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

*Algebra (College Board "B") .....	½ unit
Solid Geometry .....	½ unit

‡ Wherever possible, physics or chemistry should be offered for this requirement.

\* Examination required to validate offering.

*Trigonometry .....	½ unit
†German, French, Latin, Spanish, or Greek .....	1 to 4 units
History or Civics (not the required unit) .....	1 to 3 units
Physics, Chemistry, or Biology (not the required unit) .....	1 to 2 units

For other elective units, see the list of elective units acceptable for the A.B. degree.

Due to lack of uniformity in various states as to the subject matter covered by the various units in algebra and the consequent variation in the work done by Freshmen in advanced algebra, it has become necessary to adopt the College Entrance Examination Board's definition of these units and to require each prospective student to take a placement examination in algebra during Freshman Week. Students who validate by examination one and one-half units (algebra through quadratics, binomial theorem, and progressions) which are offered for admission or two units (algebra through quadratics, binomial theorem, progressions, simultaneous equations in three unknowns, graphs, exponents and radicals, and logarithms) will be placed in Mathematics 9-10 (5 hours a week, each semester). Those who validate by examination only one unit of the offering in algebra (i.e., to quadratics) will be placed in Mathematics 11-12 (6 hours a week, each semester). Those who do not validate by examination at least one unit of their offering in algebra will not be allowed to pursue a course in engineering. Certificates from the College Entrance Examination Board (431 W. 117th Street, New York) will be accepted in lieu of the placement examination. Prospective students may gain a general idea of the type of examination to be given here from old examinations of the College Board published by Ginn and Company, New York.

## GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

### GROUP I

#### CIVIL ENGINEERING

##### *Freshman Year*

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Mathematics 9-11 .....	5	Mathematics 10-12 .....	5
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Physics 17 .....	3	Physics 18 .....	3
Drawing 1 .....	2	Drawing 2 .....	2
Physical Education .....	2	Physical Education .....	2
	<hr/> 17		<hr/> 17

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

\* Examination required to validate offering.

† One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

*Sophomore Year*

Mathematics 99 .....	4	Mathematics 100 .....	4
Physics 57 .....	3	Physics 58 .....	3
Statics 7 .....	3	Physical Education .....	3
Physical Education .....	3	Economics 52 .....	3
Economics 51 .....	3	Kinetics 8 .....	2
Surveying 11 .....	2	Highways 117 .....	2
Highways 15 .....	3	Materials 118 .....	3
	<hr/>		<hr/>
	18		17

*Junior Year*

Strength of Materials 107 .....	4	Hydraulics 108 .....	4
Curves and Earthwork 113 .....	2	Curves and Earthwork 114 .....	2
Structures 131 .....	4	Structures 132 .....	4
Engineering Elective .....	3	Engineering Elective .....	3
Elective .....	3	Elective .....	3
	<hr/>		<hr/>
	16		16

*Senior Year*

Electives .....	6	Electives .....	5
Seminar 137 .....	1	Seminar 138 .....	1
Hydraulic Engineering 123 .....	4	Hydraulic Engineering 124 .....	4
Concrete 133 .....	3	Concrete 134 .....	3
Railroads 119 .....	3	Railroads 120 .....	2
	<hr/>	Astronomy 112 .....	2
	17		<hr/>
			17

**GROUP II****ELECTRICAL ENGINEERING***Freshman Year***FIRST SEMESTER****SECOND SEMESTER**

	<b>S.H.</b>		<b>S.H.</b>
Mathematics 9-11 .....	5	Mathematics 10-12 .....	5
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Physics 17 .....	3	Physics 18 .....	3
Drawing 1 .....	2	Drawing 2 .....	2
Physical Education .....		Physical Education .....	
	<hr/>		<hr/>
	17		17

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

*Sophomore Year*

Mathematics 99 .....	4	Mathematics 100 .....	4
Physics 57 .....	3	Physics 58 .....	3
Statics 7 .....	3	Physical Education .....	3
Physical Education .....	3	Kinetics-Mechanism 82 .....	4
Steam Engineering 85 .....	2	Electrical Engineering 52 .....	3
Electrical Engineering 51 .....	3	Economics 52 .....	3
Economics 51 .....	3		<hr/>
	<hr/>		17
	18		

*Junior Year*

Theory of D. C. Circuits 151 .....	3	Theory of A. C. Circuits 152 .....	3
Hydraulics 108 .....	4	Strength of Materials 107 .....	4
Electrical Circuits Laboratory 161..	1	Electrical Circuits Laboratory 162..	1
Heat Power Engineering 181 .....	3	Heat Power Engineering 182 .....	3
Differential Equations 131 .....	3	Electrical Measurements 104 .....	3
Mechanical Engineering		Mechanical Engineering	
Laboratory 199 .....	1	Laboratory 200 .....	1
	<hr/>		<hr/>
	15		15

*Senior Year*

Electives .....	6	Electives .....	6
Seminar 165 .....	1	Seminar 166 .....	1
D. C. Machinery 155 .....	2	A. C. Machinery 258 .....	3
D. C. Machinery Laboratory 163 ..	1	Electric-Power Stations 158 .....	3
A. C. Machinery 257 .....	3	Communication 262 .....	4
Electric-Power Transmission 159 ..	3		
Communication 261 .....	3		
	<hr/>		<hr/>
	19		17

**GROUP III**

**MECHANICAL ENGINEERING**

*Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9-11 .....	5	Mathematics 10-12 .....	5
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Physics 17 .....	3	Physics 18 .....	3
Drawing 1 .....	2	Drawing 2 .....	2
Physical Education .....		Physical Education .....	
	<hr/>		<hr/>
	17		17

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

*Sophomore Year*

Mathematics 99 .....	4	Mathematics 100 .....	4
Physics 57 .....	3	Physics 58 .....	3
Statics 7 .....	3	Physical Education .....	
Physical Education .....		Kinetics-Mechanism 82 .....	4
Economics 51 .....	3	Economics 52 .....	3
Constructive Processes 79 .....	3	Steam Engineering 86 .....	3
	<hr/>		<hr/>
	16		17

*Junior Year*

Hydraulics 185 .....	3	Machine Design 170 .....	3
Strength of Materials 107 .....	4	Internal Combustion Engines 186 ..	3
Electrical Engineering 153 .....	3	Electrical Engineering 154 .....	3
Thermodynamics 187 .....	3	Thermodynamics 188 .....	3
Mechanical Engineering		Mechanical Engineering	
Laboratory 189 .....	1	Laboratory 190 .....	2
Elective .....	3	Elective .....	3
	<hr/>		<hr/>
	17		17



*Senior Year*

Electives .....	6	Electives .....	6
Seminar 173 .....	1	Seminar 174 .....	1
Machine Design 171 .....	3	Aeronautics 198 .....	3
Power Plants 191 .....	3	Industrial Engineering 192 .....	3
Mechanical Engineering		Mechanical Engineering	
Laboratory 193 .....	2	Laboratory 194 .....	2
Heating and Ventilation 195 .....	2	Refrigeration 196 .....	2
	<hr/> 17		<hr/> 17

## COURSES OF INSTRUCTION

Note: *Courses primarily for Freshmen are numbered from 1 to 49; those primarily for Sophomores are numbered from 50 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and Graduates from 200 to 299. The amount of credit for each course is given in semester-hours following the description of the course.*

The designation (w) or (E) indicates that the course is to be given on the West Campus or on the East Campus. The designation E means Engineering; L, Law; SR, School of Religion. When this designation precedes a course number, the course is not approved for graduate credit.

Odd-numbered courses are offered in the fall semester, and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must be continued throughout the year if credit is received.

### COURSES OPEN PRIMARILY TO FRESHMEN

Botany 1-2	Latin 1-2, 3, 4, 15, 16, 41, 42
Chemistry 1-2	Mathematics 1-2, 3-4, 7-8, 9-10, 11-12
Economics 11	Philosophy 48
Education 4, 8	Physics 1-2
English 1-2	Political Science 21-22
Fine Arts 1-2	Religion 1-2
French 1-2, 3-4	Spanish 1-2, 3-4
German 1-2, 3-4	Zoology 1-2
History 1-2	

### BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES;  
 ASSISTANT PROFESSOR KRAMER, SUPERVISOR OF FRESHMAN INSTRUCTION;  
 PROFESSOR WOLF; ASSOCIATE PROFESSOR HARRAR; ASSISTANT PROFESSORS ADDOMS\* AND OOSTING; INSTRUCTORS-ANDERSON AND PERRY; AND ASSISTANTS

1. General Botany.—4 s.h. STAFF
2. General Botany.—Prerequisite: Botany 1. 4 s.h. STAFF
51. Growth.—Prerequisite: one year of botany. 4 s.h.  
ASSISTANT PROFESSOR ADDOMS
52. Plant Identification.—Prerequisite: one year of botany. 4 s.h.  
PROFESSOR BLOMQUIST
55. Morphology and Anatomy of Vascular Plants.—Prerequisite: one year of botany. 4 s.h.  
ASSISTANT PROFESSOR OOSTING
101. Principles of Heredity.—Prerequisite: one course in biology, botany, or zoology. High School or College Algebra recommended. 3 or 4 s.h.  
DR. PERRY
103. General Bacteriology.—Prerequisite: one year of botany or zoology, or equivalent. 4 s.h.  
PROFESSOR WOLF
104. The Structure and Identification of Lower Plants.—Prerequisite: one year of botany. 4 s.h.  
DR. ANDERSON
151. Introductory Plant Physiology.—Prerequisite: Botany 1, 2, or equivalent; one year of chemistry recommended. 4 s.h.  
ASSISTANT PROFESSOR KRAMER

\* Absent on leave, second semester, 1938-39.

156. **Plant Ecology.**—Prerequisites: Botany 1, 2 and 52, or equivalents. 4 s.h. ASSISTANT PROFESSOR OOSTING

202. **Genetics.**—Offered in alternate years. Prerequisites: one year of botany or zoology, or equivalent, and college algebra. 4 s.h. DR. PERRY

203. **Plant Cytology.**—Prerequisite: two years of botany. 4 s.h. DR. ANDERSON

204. **Advanced Plant Anatomy.**—Offered in alternate years. Prerequisite: Botany 55 or equivalent. 4 s.h. ASSISTANT PROFESSOR ADDOMS  
[Not offered in 1938-39]

216. **Botanical Microtechnique.**—Prerequisite: three semesters of botany. 4 s.h. DR. ANDERSON

221. **Structure and Classification of Fungi.**—Prerequisite: two years of botany. 4 s.h. PROFESSOR WOLF

225, 226. **Special Problems.**

a. **Bacteriology, Mycology and Plant Pathology.** PROFESSOR WOLF

b. **Cytology.** DR. ANDERSON

c. **Ecology.** ASSISTANT PROFESSOR OOSTING

d. **Genetics.** DR. PERRY

e. **Morphology and Anatomy of Higher Groups.**

ASSOCIATE PROFESSOR HARRAR, ASSISTANT  
PROFESSORS ADDOMS AND OOSTING

f. **Morphology and Taxonomy of Lower Groups.**

PROFESSOR BLOMQUIST AND DR. ANDERSON

g. **Physiology.** ASSISTANT PROFESSOR KRAMER

h. **Plant Microchemistry.** ASSISTANT PROFESSOR ADDOMS

i. **Taxonomy of Higher Groups.** PROFESSOR BLOMQUIST

252. **Advanced Plant Physiology.**—Prerequisite: Botany 151, or equivalent; organic chemistry recommended. 4 s.h.

ASSISTANT PROFESSOR KRAMER

255. **Advanced Taxonomy.**—Prerequisite: two years of botany, including Botany 52, or equivalent. 4 s.h. PROFESSOR BLOMQUIST

256. **Field Ecology.**—Offered in alternate years. Prerequisites: Botany 1, 2, and 52, or equivalent. 4 s.h. ASSISTANT PROFESSOR OOSTING  
[Not offered in 1938-39]

#### FOREST BOTANY

224. **Forest Pathology.**—Prerequisites: Botany 1, 2. 4 s.h. PROFESSOR WOLF

253. **Dendrology.**—Prerequisite: two years of botany. 4 s.h. ASSOCIATE PROFESSOR HARRAR

Related courses which may be counted toward a major in Botany.

Zoology 110.—2 s.h. DR. JOHNSON

#### DEPARTMENTAL MAJOR

*Prerequisites:* Botany 1 and 2.

*Major Requirements:* Twenty-one to twenty-four hours of work including courses 52, 55, and 104. The remaining hours may be selected from any other courses in the Department for which the student is eligible, subject to the approval of the Departmental Adviser.

**DEPARTMENTAL HONORS PROGRAM**

I. *Prerequisites*: Botany 1-2. A year course in each of three other sciences acceptable to the Departmental Committee. Some of these may be taken concurrently with the Honors work.

II. *Honors Work*.

## a. Botany.

1. Scheduled courses. At least 5 courses (18-20 semester-hours) beyond Botany 1-2.

2. Reading Courses and Problems, chiefly in the Senior year. Nine semester-hours. In addition to scheduled courses, each Honors student will take reading courses in such fields as History of Botany and Theories of Biology; or he may take reading courses in special fields; or he may undertake a special problem; or he may carry on both reading and a problem. This work will count as nine semester-hours and will extend through a year at least. The student will report to his Adviser regularly for conference on this work. He may be asked to prepare written reports on the reading courses, and he must make such a report on his problem.

## b. Philosophy—6 semester-hours.

c. Electives in botany or in other departments, subject to the approval of the Departmental Committee.

III. *General Honors Examination*: In the spring semester of the Senior year, each student must pass a general examination on the entire field of his Honors work. The Examining Committee consists of the Departmental Committee and such Advisers as have been concerned with his Honors work. The student must present a written report upon his problem and such written reports upon his reading as may be required, before he is permitted to take the general examination.

**CHEMISTRY**

PROFESSOR GROSS, CHAIRMAN; PROFESSOR VOSBURGH, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR; INSTRUCTORS—BROWN, HILL AND HOBBS; AND ASSISTANTS

1-2. **General Inorganic Chemistry**.—It is desirable, though not required, that students taking this course shall have taken elementary physics either in high school or in college. 8 s.h.

PROFESSOR WILSON AND DR. HILL WITH PROFESSOR GROSS; ASSISTANT PROFESSORS HAUSER AND SAYLOR; DRs. BROWN AND HOBBS; AND ASSISTANTS

61. **Qualitative Analysis**.—Prerequisites: Chemistry 1-2 and algebra. 4 s.h. PROFESSOR VOSBURGH; ASSISTANT PROFESSOR SAYLOR; DR. HOBBS; AND ASSISTANTS

70. **Quantitative Analysis**.—Prerequisite: Chemistry 61. Analytic geometry and college physics are desirable but not required. 4 s.h.

PROFESSOR VOSBURGH; ASSISTANT PROFESSOR SAYLOR; DR. HOBBS; AND ASSISTANTS

81. **Introductory Food Chemistry**.—Prerequisites: Chemistry 1-2 or equivalent. 3 s.h. PROFESSOR WILSON AND DR. BROWN

142. **Nutrition**.—Prerequisite: course 81 or its equivalent. 3 s.h.

PROFESSOR WILSON, DR. BROWN AND ASSISTANT

151-152. **Organic Chemistry**.—Prerequisites: Chemistry 61 and 70. Course 151 is prerequisite for 152. 8 s.h.

ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSOR HAUSER; DR. BROWN; AND ASSISTANTS

**153-154. Intermediate Chemistry Laboratory.—2 or 4 s.h.**ASSOCIATE PROFESSOR BIGELOW, ASSISTANT  
PROFESSOR SAYLOR, AND DR. BROWN**173-174. Honors Seminar.—2 s.h.**

PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR BIGELOW

FOR SENIORS AND GRADUATES

**215-216. Advanced Inorganic Chemistry.**—Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214 and ability to read German are desirable. 6 s.h.

PROFESSOR VOSBURGH AND DR. HILL

**231. Instrumental Analysis.**—Prerequisite: Chemistry 70. Laboratory physics is desirable. 3 s.h.

PROFESSOR VOSBURGH; ASSISTANT PROFESSOR SAYLOR AND DR. HOBBS  
[Not offered in 1938-39]

**232. Advanced Quantitative Analysis.**—Prerequisites: Chemistry 70 and 151-152. 3 s.h.

PROFESSOR VOSBURGH, ASSOCIATE PROFESSOR BIGELOW,  
ASSISTANT PROFESSOR SAYLOR AND DR. HOBBS

[Not offered in 1938-39]

**241. Physiological Chemistry.**—Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. 4 s.h.

PROFESSOR WILSON AND ASSISTANT

**242. Metabolism.**—Two lectures, credit 2 s.h., and 6 laboratory hours, credit 2 s.h. 4 s.h.

PROFESSOR WILSON AND ASSISTANT

**253-254. Advanced Organic Chemistry.**—Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. 8 s.h.

ASSOCIATE PROFESSOR BIGELOW, ASSISTANT PROFESSOR  
HAUSER, AND DR. BROWN

**261-262. Physical Chemistry.**—Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent and Mathematics 7-8 or equivalent. Calculus is desirable but is not required. 6 s.h.

PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR AND DR. HOBBS

**271. Introduction to Research.—1 s.h.**PROFESSORS GROSS AND VOSBURGH, AND ASSOCIATE PROFESSOR BIGELOW  
[Not offered in 1938-39]**273-274. Seminar.—2 s.h.**PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSOR BIGELOW;  
ASSISTANT PROFESSORS HAUSER AND SAYLOR;  
DRS. BROWN, HILL, AND HOBBS**275-276. Research.—3 or 6 s.h.**PROFESSORS GROSS, VOSBURGH, AND WILSON; ASSOCIATE PROFESSOR  
BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR;  
DRS. BROWN, HILL, AND HOBBS**DEPARTMENTAL MAJORS**

A. For the degree of A.B.

*Prerequisites:* Chemistry 1-2, Mathematics 7-8 (or equivalent).

*Major Requirements:* Chemistry 61-70, 151-152 and 261-262. With the permission of the Department other Senior-Graduate chemistry courses giving a total of not less than 6 s.h. credit may be substituted for Chemistry 261-262.

B. For the degree of B.S.

*Prerequisites:* Chemistry 1-2, Mathematics 7-8 (or equivalent).

*Major Requirements:* Chemistry 61-70, 151-152; 261-262 and 3 to 6 s.h. of chemistry to be elected with the approval of the Department.



**DEPARTMENTAL HONORS PROGRAM**

For admission to candidacy for Honors in chemistry the student must have completed the following courses:

Chemistry 61-70, Physics 1-2 or 51-52, Mathematics 7-8 (or equivalent), and either Mathematics 99 or Botany 1-2 or Zoology 1-2 or other courses in the Science Division satisfactory to the Department.

Candidates for Honors shall complete the following program of work:

Chemistry 151-152, 153-154, 173-174, 261-262 and 275-276; Physics (advanced) 6 s.h.; Mathematics through integral calculus; and 6 to 8 s.h. of course work in botany, geology or zoology, satisfactory to the Department, if not offered for admission to the Honors Group.

Chemistry 173-174 is a seminar for Honors students of both Junior and Senior years. The purpose is to give practice in the use of chemical literature and the oral presentation of assigned topics under the direction of a member of the Staff.

In Chemistry 275-276 an experimental research project is carried out under the direction of a member of the Staff. Selection of the problem for investigation is made by the student from a limited number of topics, with the approval of the Department. The object of the course is to acquaint the student with research aims and methods. If possible, an investigation of limited scope will be completed. Total credit for tutorial courses is 10 s.h.

A written report must be prepared on the research undertaken in Chemistry 275-276. A general examination in chemistry will be given at the end of each year.

**ECONOMICS AND BUSINESS ADMINISTRATION**

PROFESSOR GLASSON,\* CHAIRMAN; PROFESSOR HAMILTON, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DE VYVER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS HOOVER, SPENGLER, AND VON BECKERATH; ASSISTANT PROFESSORS BLACK, EITEMAN, LANDON, LEMERT, RATCHFORD,\*\* SHIELDS, AND SPRINGER; INSTRUCTORS—DELAPLANE, KEECH, SMITH, BERRY, OLIVER, HAVENS, AND WELFLING

**ECONOMICS**

51-52. Principles of Economics.—6 s.h.

PROFESSORS HOOVER AND SPENGLER; DRs. DELAPLANE AND SMITH; MESSRS. BERRY, OLIVER, AND WELFLING

103. Transportation.—3 s.h.

ASSISTANT PROFESSOR LANDON

107. Conservation.—3 s.h.

ASSISTANT PROFESSOR LEMERT

138. Business Statistics.—3 s.h.

ASSISTANT PROFESSOR SPRINGER, DRs. DELAPLANE AND SMITH, MR. WELFLING

143. Corporation Finance.—3 s.h.

ASSISTANT PROFESSORS DE VYVER, EITEMAN, LANDON, DRs. DELAPLANE AND SMITH

144. Investments.—Prerequisite: Economics 57-58 and 143. 3 s.h.

ASSISTANT PROFESSOR EITEMAN

169. Economics of Consumption.—3 s.h.

DOCTOR SMITH

187. Public Finance.—3 s.h.

ASSISTANT PROFESSOR RATCHFORD

\* Absent on leave, second semester, 1938-39.

\*\* Absent on leave, 1938-39.



- 203-204. Money, Banking, and Credit.—6 s.h.  
 PROFESSOR GLASSON, ASSISTANT PROFESSOR RATCHFORD,  
 AND MR. WELFLING
215. Economic Systems.—3 s.h. PROFESSOR HOOVER  
 (Admission only with the written consent of the instructor.)
216. Economic Functions of the State.—3 s.h. PROFESSOR HOOVER  
 (Admission only with the written consent of the instructor.)
217. Business Cycles.—3 s.h. PROFESSOR SPENGLER
218. Population Problems and the Standard of Living.—3 s.h.  
 PROFESSOR SPENGLER
230. Public Debts in the United States.—3 s.h.  
 [Formerly 236.] ASSISTANT PROFESSOR RATCHFORD
231. The Economic History of Modern Europe.—3 s.h.  
 PROFESSOR HAMILTON AND ASSISTANT PROFESSOR DE VYVER
232. The Economic History of the United States.—3 s.h.  
 PROFESSOR HAMILTON AND ASSISTANT PROFESSOR DE VYVER
233. State and Local Finance.—Prerequisite: Economics 187 or equivalent.  
 3 s.h. ASSISTANT PROFESSOR RATCHFORD  
 [Not offered in 1938-39]
234. Federal Finance.—Prerequisite: Economics 187 or equivalent. 3 s.h.  
 ASSISTANT PROFESSOR RATCHFORD  
 [Not offered in 1938-39]
- 237-238. Statistical Methods.—Prerequisite: Business Statistics 138 or  
 consent of the instructor. 3 s.h. ASSISTANT PROFESSOR RATCHFORD
239. Prices.—3 s.h.  
 PROFESSOR HAMILTON AND ASSISTANT PROFESSOR EITEMAN
- 241-242. Value and Distribution.—6 s.h. PROFESSOR SPENGLER
- 245-246. Problems of Modern Industrialism.—6 s.h.  
 PROFESSOR VON BECKERATH
253. Labor Problems.—3 s.h. ASSISTANT PROFESSOR DE VYVER
256. Labor Legislation.—Prerequisite: Economics 253, or with the consent  
 of the instructor. 3 s.h. ASSISTANT PROFESSOR DE VYVER  
 [Not offered in 1938-39]
260. Social Insurance.—3 s.h. ASSISTANT PROFESSOR DE VYVER
265. International Trade and Tariff Policies.—3 s.h.  
 PROFESSOR VON BECKERATH
266. International Finance.—3 s.h.  
 PROFESSOR HAMILTON AND ASSISTANT PROFESSOR EITEMAN
268. Competitive versus Monopolistic Enterprise.—3 s.h.  
 PROFESSOR VON BECKERATH

#### BUSINESS ADMINISTRATION

##### A. ACCOUNTANCY

- 57-58. Principles of Accounting.—6 s.h.  
 ASSISTANT PROFESSORS BLACK, DE VYVER, EITEMAN,  
 SHIELDS, AND SPRINGER; DR. KEECH

- 171-172. Advanced Accounting.—6 s.h. ASSISTANT PROFESSOR SHIELDS  
 173-174. Auditing, Theory and Practice.—6 s.h. ASSISTANT PROFESSOR BLACK  
 175-176. C. P. A. Review.—6 s.h. ASSISTANT PROFESSOR BLACK  
 [Not offered in 1938-39]  
 177. Income-Tax Accounting.—3 s.h. ASSISTANT PROFESSOR SHIELDS  
 178. Modern Accounting Systems.—3 s.h. ASSISTANT PROFESSOR SHIELDS  
 275-276. Advanced Industrial Accounting and Management.—Courses 57-58 and 171-172 are ordinarily prerequisites for this course. 6 s.h.  
 ASSISTANT PROFESSOR BLACK

## B. COMMERCE AND INDUSTRY

11. Economic Geography.—3 s.h. ASSISTANT PROFESSOR LEMERT  
 105. Industrial Management.—3 s.h. MESSRS. BERRY AND KEECH  
 115. Economic Geography.—3 s.h. ASSISTANT PROFESSOR LEMERT  
 116. Economic Geography and Industrial Organization.—Prerequisite: course 115. 3 s.h. ASSISTANT PROFESSOR LEMERT  
 118. Economic Geography of the South Atlantic States.—Prerequisites: Economics 11, Economic Geography 115, or with consent of the instructor. 3 s.h. ASSISTANT PROFESSOR LEMERT  
 158. Insurance.—3 s.h. MESSRS. KEECH AND BERRY  
 168. Marketing.—Collateral reading and the preparation of papers are required. 3 s.h. ASSISTANT PROFESSOR LANDON  
 181-182. Business Law.—6 s.h. ASSISTANT PROFESSOR SPRINGER  
 184. Commercial Law for Accountants.—3 s.h. ASSISTANT PROFESSOR BLACK

## DEPARTMENTAL MAJOR

*Prerequisites:* All students who desire to major in the Department of Economics are required to take as a prerequisite courses 51-52, Principles of Economics. Ordinarily this prerequisite work should be taken in the Sophomore year.

*Major Requirements:* Students who major in Economics are required to take twenty-four semester-hours of work in Economics in the Junior and Senior years. At least twelve semester-hours of this work must be chosen from Senior-Graduate courses offered in Economics. The remainder of the twenty-four hours may be chosen from courses offered in Economics for Juniors and Seniors. Students may elect six hours of Accounting and six hours in Commerce and Industry toward the completion of this requirement. The selection of courses should be approved by an appointed representative of the Departmental Faculty.

*Cognate Courses:*

- Forestry 278. Economics of Forestry.  
 History 219-220. The History of the European Proletariat.  
 Political Science 207. American Constitutional Law and Theory.  
 Political Science 209. State and Local Governments in the United States.  
 Political Science 271. Sociopolitics and the Capitalistic System.  
 Sociology 219. Urban Sociology.  
 Sociology 220. Rural Sociology.  
 Sociology 227. Emigration and Immigration.

## HONORS WORK

The Departments of Economics, Political Science, and Philosophy form an Honors group within the Division of the Social Sciences. For the details of this program the student should consult pages 55-56.

Honors readings in economics are as follows:

*History of Economic Thought*: A consideration of the principal economic writers showing the development of modern economic thought. MR. WELFLING

*Social Economics*: The problems of social adjustment to modern economic institutions. ASSISTANT PROFESSOR DE VYVER

*American Economic Organization*: The development and operation of the institutions of modern American capitalism. ASSISTANT PROFESSOR DE VYVER

## EDUCATION

PROFESSOR HOLTON, CHAIRMAN; PROFESSOR PROCTOR, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR EASLEY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BROWNELL AND CHILDS; ASSOCIATE PROFESSOR CARR; INSTRUCTORS—SMITH AND WATSON; AND ASSISTANTS

1. Orientation Course in Study and Study Habits.—3 s.h.  
ASSISTANT PROFESSOR EASLEY AND MR. WATSON
4. Introductory Course in History of Education.—3 s.h.  
PROFESSOR HOLTON AND ASSOCIATE PROFESSOR CARR
8. The Learning Process.—3 s.h.  
PROFESSORS BROWNELL AND CHILDS; ASSISTANT PROFESSOR EASLEY, AND MR. WATSON
54. Introductory Course in History of Education.—3 s.h.  
PROFESSOR HOLTON
58. The Learning Process.—3 s.h. ASSISTANT PROFESSOR EASLEY
68. Mental Hygiene of the School Child.—3 s.h.  
ASSISTANT PROFESSOR EASLEY
83. Current Trends in American Public School Organization.—3 s.h.  
PROFESSOR PROCTOR
101. Introduction to Teaching.—3 s.h. ASSOCIATE PROFESSOR CARR
103. School Organization and Administration for the Classroom Teacher.—3 s.h. PROFESSOR PROCTOR
104. History of Education in the United States.—3 s.h.  
PROFESSOR HOLTON  
[Not offered in 1938-39]
105. Introduction to Educational Sociology.—3 s.h. PROFESSOR CHILDS
112. Methods of Teaching and Presentation of Subject Matter in the Primary Schools.—Prerequisite: course 101. 4 s.h.  
ASSOCIATE PROFESSOR CARR  
[Not offered in 1938-39, unless as many as eight students enroll.]
- A. Public School Drawing.—(3 points professional credit only.)  
MRS. MASON  
[Not offered in 1938-39]
- B. Industrial Art in the Public School.—(3 points professional credit only.)  
MRS. MASON

## C. Public-School Music.—(3 points professional credit only.)

MRS. TWADDELL

## 115-116. Secondary Education: Principles and Practice.—6 or 8 s.h.

PROFESSOR CHILDS AND ASSISTANTS

## 118. Educational Implications of Genetic Psychology.—3 s.h.

[Not offered in 1938-39]

PROFESSOR BROWNELL

## 122. Methods of Teaching and Presentation of Subject Matter in the Grammar Grades.—Prerequisite: course 101. 4 s.h.

ASSOCIATE PROFESSOR CARR

## 131. Observation and Practice-Teaching.—1 s.h.

ASSOCIATE PROFESSOR CARR

## 136. The Teaching of High-School English.—3 s.h.

ASSISTANT PROFESSOR A. C. JORDAN

## 142. Children's Literature.—3 s.h.

ASSOCIATE PROFESSOR CARR

## 155. The Teaching of Secondary School Latin.—3 s.h.

## 170. The Social and Economic Position of Women.—2 s.h.

MRS. SMITH

## 176. Materials and Methods in High-School Science.—Prerequisite: at least eighteen hours of science in college. 3 s.h.

[Not offered in 1938-39]

PROFESSOR CHILDS

## 200. Introduction to the Philosophy of Education.—3 s.h.

PROFESSOR HOLTON

## 205. Curriculum Problems in Secondary Education.—3 s.h.

PROFESSOR CHILDS

## 206. Sociological Foundations of the Secondary School Subjects.—Prerequisite: general sociology or approved work in education, including course 105. 3 s.h.

[Not offered in 1938-39]

PROFESSOR CHILDS

## 207. Technique of Teaching.—3 s.h.

[Not offered in 1938-39]

ASSOCIATE PROFESSOR CARR

## 208. Mental Tests and Applications.—Prerequisite: course 258 or six semester-hours of other work in educational psychology or psychology. 3 s.h.

ASSISTANT PROFESSOR EASLEY

## 209. Statistical Methods Applied to Education.—3 s.h.

ASSISTANT PROFESSOR EASLEY

## 212. Psychology of the Elementary School Subjects.—3 s.h.

ASSOCIATE PROFESSOR CARR

## 214. History of Education in the United States.—3 s.h.

[Not offered in 1938-39]

PROFESSOR HOLTON

## 216. Psychological Principles of Secondary Education.—3 s.h.

[Not offered in 1938-39]

PROFESSOR CHILDS

## 217. Advanced Educational Psychology.—3 s.h.

ASSISTANT PROFESSOR EASLEY

## 218. Educational Implications of Genetic Psychology.—Prerequisite: six semester-hours of psychology or educational psychology. 3 s.h.

PROFESSOR BROWNELL

219. Experimental Education.—3 s.h. PROFESSOR BROWNELL  
[Not offered in 1938-39]
222. The Curriculum and Materials of the Elementary Grades.—3 s.h.  
ASSOCIATE PROFESSOR CARR
- S225. The Teaching of History and Civics.—3 s.h.  
ASSISTANT PROFESSOR MANCHESTER
227. The Psychology of Learning: Problems.—3 s.h.  
ASSISTANT PROFESSOR EASLEY
228. The Psychology of Learning: Theoretical and Experimental.—Pre-requisite: course 227 or its equivalent. 3 s.h.  
[Not offered in 1938-39] ASSISTANT PROFESSOR EASLEY
232. Elementary School Supervision.—3 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR CARR
233. Administrative Pupil-Accounting.—3 s.h. PROFESSOR PROCTOR
234. Secondary School Organization and Administration.—3 s.h.  
PROFESSOR PROCTOR
237. Investigations in Reading.—3 s.h. ASSOCIATE PROFESSOR CARR
244. Studies in the Historical Development of Public School Administration.—3 s.h.  
[Not offered in 1938-39] PROFESSOR HOLTON
246. The Teaching of Mathematics.—3 s.h. PROFESSOR RANKIN
247. Investigations in Arithmetic.—3 s.h. PROFESSOR BROWNELL
253. Legal Phases of School Administration.—3 s.h. PROFESSOR HOLTON  
[Not offered in 1938-39]
254. History of Secondary Education in the United States.—3 s.h.  
PROFESSOR PROCTOR
258. Educational Measurements.—Prerequisite: twelve semester-hours in the Department, including a course in educational psychology. 3 s.h.  
PROFESSOR BROWNELL
264. Recent Movements in American Education.—3 s.h.  
PROFESSOR HOLTON
266. The Teaching of High-School French.—3 s.h. PROFESSOR WEBB
294. Comparative Education: Recent Movements in European Educational Systems.—3 s.h. ASSOCIATE PROFESSOR CARR

#### DEPARTMENTAL MAJOR

A major in the Department of Education consists of twenty-four semester-hours of work above the Freshman year, not including any work listed as primarily for Freshmen, and including at least six semester-hours of courses limited to Seniors or to Seniors and Graduates. Students, however, who obtain credit for courses 4 and 8 will be permitted to complete a major by taking twenty hours of additional work in the Department, provided twelve hours are courses limited to Seniors or to Seniors and Graduates. Before graduation, majors in the Department must have credit for at least one course in educational psychology, such as 8, 58, or 68, and one course in history and philosophy of education, or in educational sociology. The remainder of their work may be elected from courses listed for Sophomores, Juniors, and Seniors, provided at least six semester-hours of the course work are taken from courses listed for Seniors and Graduates, and provided that not more than six semester-hours may be of courses numbered below 100.



## DEPARTMENTAL HONORS PROGRAM

I. *Prerequisites:* Completion of the Sophomore year in Group I, V, or VI of the "Groups of Studies for the Degree of Bachelor of Arts" with average of one and one-half quality-points per semester-hour, and an average of "B" or better in some one department in which the student has been enrolled within his first two years.

II. (a) Completion of the regular departmental major in the Department of Education as defined above (see Departmental Major). (b) Completion of fifteen semester-hours of work listed for Juniors and Seniors in not more than two departments approved by the Honors Adviser as related work. (c) Completion in the Junior year of three semester-hours of reading in the works of educational theorists, and study of current developments of their theories. This work will include selected reading in the history and theory of education under the direction of the Honors Adviser and should give the student an historical perspective of the development of educational theory and the origin of conflicting educational philosophies of the present. At the end of the Junior year the student will have written examination upon the Honors reading. (d) Completion in the Senior year of six semester-hours of reading in some field of education under the direction of the Honors Adviser. The fields from which the student may choose, subject to the approval of the Departmental Committee, are the following: Elementary Education, Experimental Education and Educational Psychology, History and Philosophy of Education, Public School Administration, Secondary Education, and Educational Sociology. This work will include the preparation of an essay showing an accurate and broad knowledge of what has been done and is in process of being done in the chosen field. (It is probable that reading courses will not be offered in all fields every year. Every candidate for Honors, therefore, should at the close of his Junior year confer with the Departmental Committee and make known his wishes as to which reading courses will be organized and offered in his Senior year.)

At the close of the Senior year the candidate will be given a general examination by the Departmental Committee and such other persons as it may designate, including the member in charge of the field in which the candidate is reading. This examination will cover the work the candidate has done in his Honors work and the related work of his Junior and Senior years.

## ENGINEERING\*

PROFESSOR HALL, DIRECTOR; PROFESSOR BIRD, CHAIRMAN CIVIL ENGINEERING;  
PROFESSOR SEELEY, CHAIRMAN ELECTRICAL ENGINEERING; PROFESSOR WILBUR,  
CHAIRMAN MECHANICAL ENGINEERING; INSTRUCTORS—CHAPMAN,  
MEIER, RANSON, REED, AND WILLIAMS.

## GENERAL ENGINEERING

- |   |                 |
|---|-----------------|
| 1-2. Engineering Drawing.—4 s.h.                                  | STAFF           |
| 5. Descriptive Geometry.—2 s.h.                                   | STAFF           |
| 7. Statics.—Prerequisites: Courses 1 and 2, Mathematics 9 and 10. | 3 s.h.<br>STAFF |
| 8. Kinetics.—Prerequisites: Course 7, and Mathematics 99.         | 2 s.h.<br>STAFF |
| 107. Strength of Materials.—Prerequisite: course 8.               | 4 s.h.<br>STAFF |
| 108. Hydraulics.—Prerequisite: course 8.                          | 4 s.h.<br>STAFF |

\* Division; three departments.



## CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; MR. WILLIAMS

- S10. Plane Surveying.—Prerequisite: course 1. Trigonometry. 3 s.h.
11. Higher Surveying.—Prerequisite: course 10. 2 s.h. MR. WILLIAMS
- S110. Plane Surveying.—Prerequisites: Engineering Drawing and Trigonometry. 3 s.h.
- S111. Higher Surveying.—Prerequisite: course 10 or 110. 3 s.h.
112. Field Astronomy.—Prerequisite: course 11. 2 s.h. PROFESSOR BIRD
- 113-114. Curves and Earthwork.—Highways.—Prerequisite: course 10. 4 s.h. PROFESSOR HALL
15. Highway Engineering.—3 s.h. PROFESSOR HALL
117. Highway Engineering.—Prerequisite: course 15. 2 s.h. MR. WILLIAMS
118. Materials of Engineering.—2 or 3 s.h. MR. WILLIAMS
- 119-120. Railroad Engineering.—Prerequisite: course 113-114. 5 s.h. PROFESSOR BIRD AND MR. WILLIAMS
- 123-124. Hydraulic Engineering.—Prerequisite: course 108. 8 s.h. PROFESSOR HALL
131. Steel Structures.—Stresses.—Prerequisite: course 8. 4 s.h. PROFESSOR BIRD
132. Steel Structures.—Design.—Prerequisites: courses 107 and 131. 4 s.h. PROFESSOR BIRD
133. Reinforced Concrete.—Prerequisite: course 107. 3 s.h. PROFESSOR BIRD
134. Masonry Structures.—Prerequisites: courses 107 and 133. 3 s.h. PROFESSOR BIRD
- 137-138. Seminar.—2 s.h. STAFF
- 143-144. Projects in Civil Engineering.—3-6 s.h. PROFESSORS BIRD AND HALL
- E.240. Indeterminate Structures.—Prerequisites: course 131 and ability to read French or German. 3 s.h. PROFESSOR BIRD

## ELECTRICAL ENGINEERING

PROFESSOR SEELEY; MESSRS. MEIER AND RANSON

- 51-52. Survey of Electrical Engineering.—Prerequisites: Freshmen mathematics and concurrent physics. 6 s.h. MR. MEIER
151. Theory of Direct Current Circuits.—Prerequisites: course 51-52, Physics 57-58, Mathematics 99, 100. Mathematics 131 should be taken concurrently. 3 s.h. MR. RANSON
152. Theory of Alternating Current Circuits.—Prerequisites: course 151, Mathematics 131. 3 s.h. MR. MEIER

- 153-154. Principles of Electrical Engineering.—Prerequisite: Physics 57-58. 6 s.h. MR. RANSON
155. Direct Current Machinery.—Prerequisites: courses 151, 161-162. 2 s.h. MR. MEIER
156. Electric Transportation.—Prerequisites: courses 151, 152, 161-162, or 153-154. 3 s.h. MR. RANSON
158. Electric-Power Stations.—Prerequisites: courses 151, 152, and 187-188. 3 s.h. MR. RANSON
159. Electric-Power Transmission.—Prerequisite: course 151, 152. 3 s.h. PROFESSOR SEELEY
- 161-162. Electrical Circuits Laboratory.—2 s.h. PROFESSOR SEELEY
163. Direct Current Machinery Laboratory.—1 s.h. MR. MEIER
- 165-166. Electrical Engineering Seminar.—2 s.h. STAFF
- 257-258. Alternating Current Machinery.—Prerequisites: courses 152, 155. 6 s.h. MR. MEIER
261. Communication Engineering, Audio Frequency.—Prerequisites: courses 151, 152, Mathematics 131. 3 s.h. PROFESSOR SEELEY
262. Communication Engineering, Radio Frequency.—Prerequisite: course 261. 4 s.h. PROFESSOR SEELEY
- 263-264. Mathematical Analysis of Electrical Circuits.—Prerequisites: courses 151, 152 and Mathematics 131. 6 s.h. PROFESSOR SEELEY
- E.265-266. Projects in Electrical Engineering.—Elective credit. 3-6 s.h. PROFESSOR SEELEY AND STAFF

## MECHANICAL ENGINEERING

PROFESSOR WILBUR; MESSRS. REED AND CHAPMAN

79. Constructive Processes.—Prerequisite: courses 1 and 2. 3 s.h. MR. CHAPMAN
82. Kinetics-Mechanism.—Prerequisites: Statics 7, and Mathematics 99. 4 s.h. MR. REED AND MR. CHAPMAN
85. Steam Engineering.—2 s.h. PROFESSOR WILBUR AND MR. CHAPMAN
86. Steam Engineering.—3 s.h. PROFESSOR WILBUR AND MR. CHAPMAN
- 170-171. Machine Design.—Prerequisites: Courses 8, 81, and 107. 6 s.h. MR. REED
- 173-174. Seminar.—2 s.h. STAFF
- 175-176. Projects in Mechanical Engineering.—3 s.h. PROFESSOR WILBUR AND STAFF
- 181-182. Heat Power Engineering.—Prerequisites: Course 85 and Mathematics 100. 6 s.h. MR. REED
185. Hydraulics.—Prerequisite: Course 82. 3 s.h. MR. CHAPMAN
186. Internal Combustion Engines.—Prerequisite: Course 187. 3 s.h. PROFESSOR WILBUR

187-188. Engineering Thermodynamics.—Prerequisites: course 85 and Mathematics 100. 6 s.h. PROFESSOR WILBUR

189-190. Junior Mechanical Engineering Laboratory.—3 s.h. MR. CHAPMAN

191. Power Plant Calculations.—Prerequisites: Mathematics 100 and courses 188 and 189. 3 s.h. PROFESSOR WILBUR

192. Industrial Engineering.—3 s.h. PROFESSOR WILBUR

193-194. Senior Mechanical Engineering Laboratory.—Prerequisite: course 191 concurrently. 4 s.h. MR. REED

199-200. Junior Mechanical Engineering Laboratory.—2 s.h. PROFESSOR WILBUR

### ENGLISH

PROFESSOR BROWN, CHAIRMAN; PROFESSOR GREENE, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR PATTON, SUPERVISOR OF FRESHMAN STUDIES; PROFESSORS BAUM, GILBERT,\* HUBBELL,\* IRVING, AND WHITE; ASSOCIATE PROFESSORS GOHDES AND MITCHELL; ASSISTANT PROFESSORS ALLEN, ANDERSON,\*\* BLACKBURN, HERRING, JORDAN, SUGDEN, VANCE, WARD, AND WHITE; INSTRUCTORS—POTEAT, SANDERS, FITZGERALD, HARWELL, LEWIS, MARTIN, JOHNSON, CARPENTER, AND STROVEN

### COMPOSITION

1-2. English Composition.—6 s.h. PROFESSOR IRVING; ASSISTANT PROFESSORS ANDERSON, BLACKBURN, PATTON, SUGDEN, VANCE, WARD, AND WHITE; DRs. POTEAT AND SANDERS; MESSRS. FITZGERALD, HARWELL, AND MARTIN

53. English Composition.—3 s.h. ASSISTANT PROFESSOR JORDAN

54. Composition.—3 s.h. ASSISTANT PROFESSOR JORDAN

65-66. Approaches to Imaginative Writing.—6 s.h. DR. SANDERS

101-102. Composition.—6 s.h. ASSOCIATE PROFESSOR MITCHELL

103-104. Composition.—6 s.h. ASSISTANT PROFESSOR BLACKBURN

107-108. Journalism. ASSISTANT PROFESSOR SUGDEN

133-134. Verse-Writing. PROFESSOR WHITE

### DRAMATICS AND SPEECH

105-106. Play-Writing.—6 s.h. MR. WEST

119-120. History of the Theater.—6 s.h. MR. WEST

121-122. Play-Production.—6 s.h. MR. WEST

139-140. The Speaking Voice.—6 s.h. MR. WEST

FOR SOPHOMORES, JUNIORS, AND SENIORS

151. Speech.—3 s.h. ASSISTANT PROFESSOR HERRING AND MR. LEWIS

152. Argumentation.—3 s.h. ASSISTANT PROFESSOR HERRING AND MR. LEWIS

\* Absent on leave, second semester, 1938-39.

\*\* Absent on leave, 1938-39.

## ENGLISH AND AMERICAN LITERATURE AND LANGUAGE

- 55-56. Representative Writers.—6 s.h.  
 PROFESSOR IRVING; ASSISTANT PROFESSORS BLACKBURN, PATTON  
 SUGDEN, VANCE, AND WARD; DR. SANDERS
- 63-64. A Survey of English Poetry.—6 s.h.  
 ASSOCIATE PROFESSOR MITCHELL
- 123-124. Shakespeare.—6 s.h.  
 PROFESSOR BROWN
- 125-126. English Literature, 1798-1832.—6 s.h.  
 PROFESSOR WHITE AND ASSISTANT PROFESSOR WHITE
- 127-128. English Prose Literature, 1832-1900.—6 s.h.  
 PROFESSOR GREENE
- 129-130. The History of the Novel in England.—6 s.h.  
 ASSOCIATE PROFESSOR MITCHELL AND ASSISTANT PROFESSOR VANCE
131. The Drama, 1770-1832.—3 s.h.  
 [Not offered in 1938-39] PROFESSOR HUBBELL
- 133-134. Verse-Writing.—6 s.h.  
 PROFESSOR WHITE
- 137-138. American Literature.—6 s.h.  
 PROFESSOR HUBBELL, ASSOCIATE PROFESSOR GOHDES,  
 AND ASSISTANT PROFESSOR ANDERSON
142. Materials and Methods in High-School English.—6 s.h.  
 ASSISTANT PROFESSOR JORDAN
- 143-144. English Literature, 1550-1625.—6 s.h.  
 PROFESSOR GREENE
- 145-146. English Poetry, 1832-1900.—6 s.h.  
 [Not offered in 1938-39] DR. SANDERS
- 147-148. Contemporary Poetry.—6 s.h.  
 ASSISTANT PROFESSOR ANDERSON
- 149-150. English Literature, 1625-1700.—6 s.h.  
 ASSISTANT PROFESSOR WARD
- 153-154. Comparative Literature.—6 s.h.  
 [Not offered in 1938-39] PROFESSOR IRVING
- 155-156. Contemporary Drama.—6 s.h.  
 ASSISTANT PROFESSOR WHITE
- 157-158. Contemporary Novel.—6 s.h.  
 ASSISTANT PROFESSORS ANDERSON AND WHITE  
 [Not offered in 1938-39]
- 159-160. English Literary Biography.—6 s.h.  
 [Not offered in 1938-39] PROFESSOR WHITE
- 161-162. The History of the English Language and Historical English  
 Grammar.  
 [Not offered in 1938-39] PROFESSORS BROWN AND GREENE
- 201-202. Anglo-Saxon.—6 s.h.  
 PROFESSOR BROWN
- 203-204. Chaucer.—6 s.h.  
 PROFESSOR BAUM
- 207-208. English Literature, 1400-1550.—6 s.h.  
 [Not offered in 1938-39] PROFESSOR BAUM
- 213-214. Folk-Lore and Folk-Songs.—6 s.h.  
 PROFESSOR BROWN

- 215-216. Elizabethan Drama.—6 s.h. PROFESSOR GILBERT
217. Spenser.—3 s.h. PROFESSOR GILBERT
218. Milton.—3 s.h. PROFESSOR GILBERT  
In 1938-39 both 217 and 218 are offered during the first semester.
- 219-220. English Prose and Poetry of the Eighteenth Century.—6 s.h.  
PROFESSOR IRVING
221. Restoration and Eighteenth-Century Drama.—3 s.h.  
ASSISTANT PROFESSOR WARD  
[Not offered in 1938-39]
- 225-226. Studies in Victorian Literature.—6 s.h. PROFESSOR BAUM  
[Not offered in 1938-39]
- 227-228. Literary Criticism.—6 s.h. PROFESSOR GILBERT  
[Not offered in 1938-39]
- 229-230. American Literature, 1800-1870.—6 s.h.  
PROFESSOR HUBBELL AND ASSOCIATE PROFESSOR GOHDES  
In 1938-39 both 229 and 230 are offered the first semester.
- 231-232. Special Studies in American Authors.—6 s.h.  
ASSOCIATE PROFESSOR GOHDES  
[Not offered in 1938-39]
- 233-234. American Literature since 1870.—6 s.h.  
ASSOCIATE PROFESSOR GOHDES
- 239-240. Shakespeare Problems.—6 s.h. PROFESSOR BROWN  
In 1938-39 the first half is offered during the second semester.

#### DEPARTMENTAL MAJOR

*Prerequisites:* English 1 and 2.

*Major Requirements:* A major in English consists of twenty-four semester-hours of credit distributed as follows: *eighteen* hours must be earned in courses in English and American literature of the 100 and 200 groups; of these eighteen at least *six* must be earned in courses in English literature of the 200 group.

#### DEPARTMENTAL HONORS PROGRAM

(a) *Prerequisite:* The minimum requirement for admission to Honors in English is the completion of a Sophomore course in English literature on which the student makes at least a grade of "B."

(b) *Honors Readings:*

- (1) The Elizabethan Period and the First Half of the Seventeenth Century. PROFESSOR IRVING
- (2) English Literature from the Restoration to the Death of Pope. PROFESSOR IRVING
- (3) English Literature, 1744-1832. ASSISTANT PROFESSOR BLACKBURN
- (4) English Literature, 1832-1900. ASSISTANT PROFESSOR BLACKBURN

#### FINE ARTS

ASSISTANT PROFESSORS McDONALD AND HALL; INSTRUCTOR-MAYFIELD

1-2. History of Art.—6 s.h.

1, ASSISTANT PROFESSOR McDONALD; 2, MISS MAYFIELD

## 51-52. History of Art.—6 s.h.

51, ASSISTANT PROFESSOR HALL; 52, ASSISTANT PROFESSOR McDONALD

## 53-54. Theory of Representation and Design.—4 s.h.

MISS MAYFIELD

## 92. Oriental Art.—3 s.h.

ASSISTANT PROFESSOR McDONALD

## 93. American Painting and Sculpture.—3 s.h.

MISS MAYFIELD

## 101. Introduction to Medieval Art.—3 s.h.

ASSISTANT PROFESSOR McDONALD

[Not offered in 1938-39]

## 102. Development of Gothic Art.—3 s.h.

[Not offered in 1938-39]

ASSISTANT PROFESSOR McDONALD

## 103. Renaissance and Baroque Architecture: Italy.—3 s.h.

ASSISTANT PROFESSOR HALL

## 104. Renaissance and Baroque Architecture: Spain and the North.—3 s.h.

ASSISTANT PROFESSOR HALL

## 105. European Architecture since 1700.—3 s.h.

[Not offered in 1938-39]

ASSISTANT PROFESSOR HALL

## 106. Architecture of the Americas.—3 s.h.

ASSISTANT PROFESSOR HALL

[Not offered in 1938-39]

## 107. Renaissance Painting and Sculpture: Italy.—3 s.h.

MISS MAYFIELD

## 108. Renaissance Painting and Sculpture: The North.—3 s.h.

MISS MAYFIELD

## 109. Seventeenth-Century Painting.

[Not offered in 1938-39]

MISS MAYFIELD

## 110. Painting and Sculpture since 1700.—3 s.h.

[Not offered in 1938-39]

MISS MAYFIELD

## 120. English Architecture.

ASSISTANT PROFESSOR HALL

## COURSES OFFERED IN OTHER DEPARTMENTS ACCREDITED IN THIS DEPARTMENT

Greek 141-142. Greek Art.

Greek 247-248. Greek Archaeology.

Latin 115. Architecture of Ancient Rome.

Latin 215. Introduction to Roman Art and Archaeology.

Latin 216. Topography and Monuments of Ancient Rome.

Philosophy 201-202. The Philosophy of Art.

Philosophy 213-214. History of Aesthetics.

Psychology 202. Psychology of Aesthetics.

## DEPARTMENTAL MAJOR

*Prerequisites:* 1-2 or 51-52.*Major Requirements:* 53-54, and eighteen hours in courses chosen from the departmental offerings, or from courses in other departments accredited in this Department.

## HONORS WORK

Senior Fine Arts Honors. Reading in Medieval Art. A study of the religious, philosophical, and racial elements of medieval civilization as they influenced artistic production.

ASSISTANT PROFESSOR McDONALD



**FORESTRY**

PROFESSOR KORSTIAN, CHAIRMAN; PROFESSORS SCHUMACHER, WACKERMAN, AND WOLF; ASSOCIATE PROFESSORS HARRAR, MAUGHAN, AND THOMSON;  
ASSISTANT PROFESSOR COILE\*

52. Principles of Forestry.—2 s.h. ASSOCIATE PROFESSOR THOMSON
- S150. Forest Surveying.—Prerequisites: Civil Engineering S110, Plane Surveying, or equivalent. 5 s.h. ASSOCIATE PROFESSOR MAUGHAN
- S151. Forest Mensuration.—4 s.h. PROFESSOR SCHUMACHER
211. Logging and Lumber Manufacture.—3 s.h. Mr. \_\_\_\_\_
212. Forest Products.—3 s.h. Mr. \_\_\_\_\_
224. Forest Pathology.—Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h. PROFESSOR WOLF
251. Sampling Methods in Forestry.—Prerequisite: Forestry S151. 2 s.h. PROFESSOR SCHUMACHER
252. Forest Mensuration.—Prerequisite: Forestry 251. 2 s.h. PROFESSOR SCHUMACHER
253. Dendrology.—Prerequisite: one year of botany. 3 s.h. ASSOCIATE PROFESSOR HARRAR
257. Design of Forestry Experiments and Analysis of Data.—5 s.h. PROFESSOR SCHUMACHER
259. Wood Anatomy and Properties.—Prerequisite: Chemistry 1 and 2 or equivalent. 3 s.h. ASSOCIATE PROFESSOR HARRAR
260. Timber Mechanics.—Prerequisites: Physics 1 and Forestry 259, or equivalents. 3 s.h. ASSOCIATE PROFESSOR HARRAR
261. Forest Soils.—Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents. 3 s.h. ASSISTANT PROFESSOR COILE
264. Silvics.—Desirable prerequisites: Botany 151 and 156, and Forestry 253 and 261, or equivalents. 3 s.h. PROFESSOR KORSTIAN
266. Forest Seeding and Planting.—2 s.h. PROFESSOR KORSTIAN
273. Forest Protection.—3 s.h. ASSOCIATE PROFESSOR THOMSON
277. Forest Policy.—2 s.h. ASSOCIATE PROFESSOR THOMSON
278. Economics of Forestry.—Prerequisite: at least one course in the principles of economics. 3 s.h. ASSOCIATE PROFESSOR THOMSON
284. Forest Improvements.—Prerequisite: Forestry S150, or equivalent. 3 s.h. ASSOCIATE PROFESSOR MAUGHAN

**GEOLOGY**

ASSISTANT PROFESSOR BERRY

51. General Geology.—4 s.h. ASSISTANT PROFESSOR BERRY
52. General Geology.—Prerequisite: Geology 51. 4 s.h. ASSISTANT PROFESSOR BERRY

\* Absent on leave, second semester, 1938-39.

101-102. Mineralogy.—Prerequisite: Chemistry 1-2 (can be taken concurrently). 8 s.h.  
ASSISTANT PROFESSOR BERRY

151. Economic Geology.—Prerequisite: Geology 101-102. 4 s.h.  
ASSISTANT PROFESSOR BERRY

152. Introductory Paleontology.—Prerequisites: Geology 51, 52, and Zoology 1. 4 s.h.  
ASSISTANT PROFESSOR BERRY

#### DEPARTMENTAL MAJOR

*Prerequisites:* None for Geology 51. Chemistry 1-2 for Geology 101-102; Zoology 1 for Geology 152.

*Major Requirements:* Geology 51, 52, 101-102, 151, 152.

#### GERMAN LANGUAGE AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES;  
ASSISTANT PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION;  
PROFESSORS KRUMMEL AND WANNAMAKER; ASSISTANT PROFESSOR  
MAXWELL; INSTRUCTORS—SHEARS AND YOUNG

1-2. Elementary German.—6 s.h.  
ASSISTANT PROFESSOR WILSON AND STAFF

3-4. Intermediate German.—6 s.h. PROFESSOR KRUMMEL AND STAFF

51-52. German Civilization.—6 s.h.

101-102. Elementary German.—6 s.h.

103-104. Intermediate German.—6 s.h.

107. Scientific German.—3 s.h.  
PROFESSOR WANNAMAKER AND ASSISTANT PROFESSOR MAXWELL

108. Advanced Scientific and Medical German.—3 s.h.  
PROFESSOR WANNAMAKER AND ASSISTANT PROFESSOR MAXWELL

109-110. German Prose Fiction.—6 s.h. PROFESSOR KRUMMEL

111-112. Introduction to the Classic Drama.—6 s.h.  
[Not offered in 1938-39] ASSISTANT PROFESSOR WILSON

113-114. Nineteenth-Century German Poetry.—6 s.h.  
ASSISTANT PROFESSOR WILSON

115-116. German Drama of the Nineteenth Century.—6 s.h.  
[Not offered in 1938-39] PROFESSOR KRUMMEL

119-120. Nibelungenlied to the Twentieth Century.—6 s.h.  
[Not offered in 1938-39] PROFESSOR VOLLMER

121-122. Schiller.—6 s.h. PROFESSOR VOLLMER

123-124. Modern German Short Story.—6 s.h. DR. SHEARS

125-126. Contemporary German Literature.—6 s.h. DR. SHEARS  
[Not offered in 1938-39]

127-128. Survey of Nineteenth-Century German Literature.—6 s.h.  
[Not offered in 1938-39] PROFESSOR VOLLMER

201-202. Goethe.—6 s.h. PROFESSOR KRUMMEL  
[Not offered in 1938-39]

207-208. German Romanticism.—6 s.h. [Not offered in 1938-39]	PROFESSOR VOLLMER
209-210. Kleist, Grillparzer, and Hebbel.—6 s.h.	PROFESSOR KRUMMEL
211-212. Heinrich Heine and Young Germany.—6 s.h.	PROFESSOR VOLLMER
213-214. Literature of the Empire, 1871-1914.—6 s.h.	PROFESSOR VOLLMER

#### DEPARTMENTAL MAJOR

1. *Prerequisites*: German 1-2 and 3-4.
2. *Major Requirements*: Twenty-four hours in the German Department. Twelve of these must be selected from the 200 courses. The remaining twelve may be selected from German 51-52 and any courses in the 100 group except 101-102, 103-104 and 119-120.

#### DEPARTMENTAL HONORS PROGRAM

##### (a) *Prerequisites*:

1. For admission to candidacy for Honors in German, a student must have begun the study of the language not later than the Freshman year in college.
2. A student who has completed at least 12 s.h. of College German by the end of the Sophomore year with a grade of "A" or "B" (equivalent courses in secondary schools or in other colleges may be presented as substitutes) is eligible to apply to the Departmental Committee for permission to read for Honors in German, provided that his general average for all college work at the time of application is not below "C."

##### (b) *Honors Work*:

Candidates for Honors in German shall complete the following program of work in the Junior and Senior years:

1. Twenty-seven semester-hours in German courses of the 100 and 200 groups, selected after consultation with the Chairman of the Departmental Honors Committee. The candidate must maintain an average of not less than "B" in each course of this subdivision.
2. Twelve semester-hours in allied departments. The courses in this subdivision must be chosen from the 100 and 200 groups. An average grade of "B" must be maintained in each of these courses.
3. Ten semester-hours in Honors reading under the supervision of an Honors Adviser and culminating in the writing of an Honors essay. The ten hours devoted to supervised reading will be based on a syllabus compiled by the Departmental Committee. The candidate will report to his Honors Adviser regularly on this reading.

(c) *General Honors Examinations*. In May of the Senior year the candidate will be given a general written examination, conducted by his Adviser, on his Honors reading. A general oral examination, conducted by the Departmental Committee, based principally on the fields covered by the candidate's courses and reading, but presupposing a general knowledge of the development of German culture and civilization and a practical ability in the use of the German language, will also be conducted in May.

#### GREEK

PROFESSOR PEPPLER, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; DR. TRUESDALE, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR WAY

1-2. Course for Beginners.—6 s.h.	DR. TRUESDALE
53-54. Xenophon.—6 s.h.	DR. TRUESDALE

105-106. Homer.—6 s.h.	PROFESSOR PEPPLER AND DR. TRUESDALE
107-108. Plato.—Euripides.—6 s.h.	DR. TRUESDALE
115-116. Sight Reading in Greek.—4 s.h.	ASSISTANT PROFESSOR WAY AND DR. TRUESDALE
117-118. Greek Prose Composition.—3 s.h.	PROFESSOR PEPPLER
121-122. Greek Literature in English Translation.—6 s.h.	PROFESSOR PEPPLER
141-142. Greek Art.—6 s.h.	ASSISTANT PROFESSOR WAY
131. History of Greece.—3 s.h.	ASSISTANT PROFESSOR WAY
201-202. Greek Tragedy.—6 s.h.	PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY
203-204. Homer.—Pindar and Bacchylides.—6 s.h.	PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY
205-206. Greek Historians.—6 s.h.	PROFESSOR PEPPLER
207-208. Greek Orators.—6 s.h.	ASSISTANT PROFESSOR WAY
209-210. Plato.—6 s.h.	ASSISTANT PROFESSOR WAY
211-212. Aristophanes.—6 s.h.	PROFESSOR PEPPLER
243. Athenian Topography.—3 s.h.	ASSISTANT PROFESSOR WAY
244. Greek Epigraphy.—3 s.h.	ASSISTANT PROFESSOR WAY
245. Greek Dialects.—3 s.h.	ASSISTANT PROFESSOR WAY
246. Greek Historical Inscriptions.—3 s.h.	ASSISTANT PROFESSOR WAY
247-248. Greek Archaeology.—6 s.h.	ASSISTANT PROFESSOR WAY

#### DEPARTMENTAL MAJOR

*Prerequisite:* Greek 1-2.

*Major Requirements:* A candidate for a major in Greek must complete twenty-four semester-hours, including the following courses: Greek 53-54, 105-106, 107-108, 117-118, and 131.

#### DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in Greek the student must have completed Greek 1-2 and 53-54 or their equivalent.

Candidates for Honors must complete the following program of work:

(a) Greek 105-106, 131, 141-142, 107-108, and 117-118.

(b) Twelve semester-hours of related work in Latin or German or Philosophy, according to the needs of the individual student.

(c) The Honors Reading. This is tutorial work in which the student is required to read assigned portions of Greek literature by himself, to write papers on topics related to his reading, and to meet the Honors Adviser in weekly conferences for the discussion of the literature that he is reading independently. For the Honors Reading a credit of fourteen semester-hours is given.

Students who enter the University with advanced standing in Greek take higher courses in the language than those listed above.

At the end of the Senior year candidates for Honors must pass a general examination in writing on the subject matter covered by their studies in Greek.

*Graduates of Duke University may attend the American School of Classical Studies at Athens, Greece, without charge for tuition, and are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.*

## HEALTH AND PHYSICAL EDUCATION

### TRINITY COLLEGE

DIRECTOR OF PHYSICAL EDUCATION WADE; ASSISTANT DIRECTOR VOYLES; ASSISTANTS AYCOCK, CALDWELL, CAMERON, CHAMBERS, COOMBS, CRICHTON, FOGLEMAN, GERARD, HAGLER, PERSONS, WARREN; AND GYMNASIUM DIRECTOR CARD

#### PHYSICAL EDUCATION CLASSES

1-2. Basketball.—1½ s.h.	MR. AYCOCK
3-4. Boxing.—1½ s.h.	MR. WARREN
5-6. Individual Corrective Activities.—1½ s.h.	MR. CHAMBERS
7-8. Handball.—1½ s.h.	MR. GERARD
11-12. Soccer Football.—1½ s.h.	MR. GERARD
13-14. Swimming.—1½ s.h.	MR. PERSONS
15-16. Touch Football.—1½ s.h.	MR. GERARD
17-18. Tennis.—1½ s.h.	MR. FOGLEMAN
19-20. Tumbling Stunts.—1½ s.h.	MR. CARD
21-22. Track.—1½ s.h.	MR. GERARD
25-26. Wrestling.—1½ s.h.	MR. WARREN
27-28. Apparatus Stunts.	MR. CARD
55-56. Individual Corrective Activities.—1½ s.h.	MR. CHAMBERS
59. Baseball.—1½ s.h.	MR. COOMBS
61-62. Golf.—1½ s.h.	MR. CRICHTON AND MR. HAGLER

#### INTERCOLLEGIATE ATHLETIC SPORTS

FRESHMEN	VARSITY
30. Baseball.—1½ s.h.	80. Baseball.—1½ s.h.
32. Basketball.—1½ s.h.	82. Basketball.—1½ s.h.
34. Boxing.—1½ s.h.	84. Boxing.—1½ s.h.
37. Football.—1½ s.h.	87. Football.—1½ s.h.
38. Football.—1½ s.h.	88. Football.—1½ s.h.
41. Cross Country.—1½ s.h.	90. Golf.—1½ s.h.
42. Swimming.—1½ s.h.	91. Cross Country.—1½ s.h.
44. Tennis.—1½ s.h.	92. Tennis.—1½ s.h.
46. Track.—1½ s.h.	93. Soccer Football.—1½ s.h.

\* Courses numbered fifty (50) and above are not open to Freshmen.



## FRESHMEN

48. Wrestling.—1½ s.h.

## VARSITY

94. Swimming.—1½ s.h.

96. Track.—1½ s.h.

98. Wrestling.—1½ s.h.

## ELECTIVES IN PHYSICAL EDUCATION

171. Recreational Activities.—3 s.h.

MR. GERARD

173. Health Education and Corrective Gymnastics.—Prerequisite: Zoology  
1-2. 4 s.h. MR. CHAMBERS

182. Organization and Administration of Physical Education and Athletics.—2 s.h. MR. WADE, MR. VOYLES

187. School Programs of Physical Education.—3 s.h.

MR. GERARD

190. Training and First Aid.—2 s.h.

MR. CHAMBERS

192. History, Systems, and Theories of Physical Education.—3 s.h.

MR. VOYLES

## WOMAN'S COLLEGE

MISS GROUT, DIRECTOR

MRS. BOOKHOUT, MISS DOWLING, MISS LEWIS, AND MISS WYCHE

## ELECTIVES IN PHYSICAL EDUCATION

81. History and Principles of Physical Education.—Prerequisite: Educational Psychology. 3 s.h. MISS GROUT

102. The Teaching of Physical Education in Elementary Schools.—3 s.h.  
MISS GROUT

108. Recreation Leadership.—2 s.h.

MISS DOWLING

181-182. Methods of Teaching Athletic Activities.—6 s.h.

THE STAFF

185. The Teaching of Physical Education in Secondary Schools.—3 s.h.  
MISS GROUT

## HYGIENE

41. Hygiene.—3 s.h.

MISS WYCHE

S112. Personal and School Hygiene.—3 s.h.

MISS GARDINER

## HISTORY

PROFESSOR LAPRADE, CHAIRMAN; ASSOCIATE PROFESSOR NELSON, DIRECTOR OF UNDERGRADUATE INSTRUCTION; MR. HAMILTON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BOYD,\* CARROLL, AND SHRYOCK;\*\* ASSOCIATE PROFESSORS BALDWIN, CLYDE,\*\*\* AND SYDNOR; ASSISTANT PROFESSORS LANNING, MANCHESTER, QUINN, ROBERT, AND STILL; VISITING ASSISTANT PROFESSOR LA FARGUE; INSTRUCTORS—HAMILTON, MCCLOY, MABRY, MUNYAN, ROPP, WOODY, AND CHAFFIN

1-2. Modern and Contemporaneous Europe.—6 s.h.

PROFESSOR CARROLL; ASSOCIATE PROFESSORS CLYDE AND NELSON;  
ASSISTANT PROFESSORS MANCHESTER AND QUINN; DRs. MCCLOY  
AND ROPP; MR. HAMILTON AND MISS CHAFFIN

\* Deceased, January 19, 1938.

\*\* Resigned, June 6, 1938.

\*\*\* Absent on leave, first semester, 1938-39.



**51-52. Modern and Contemporaneous Europe.—6 s.h.**

ASSOCIATE PROFESSOR BALDWIN, DR. MABRY, AND MR. MUNYAN  
Courses 51 and 52 are each offered in both semesters.

**65-66. The Social and Cultural History of Western Europe in the Seventeenth and Eighteenth Centuries.—6 s.h.**

DR. MCCLOY

**91. Political and Social History of the United States to 1830.—Old number 9. 3 s.h.**

PROFESSOR SHRYOCK; ASSOCIATE PROFESSOR SYDNOR; ASSISTANT  
PROFESSORS LANNING AND STILL; AND DRS. WOODY AND MABRY

**92. Political and Social History of the United States, 1830 to 1900.—Old number 91. 3 s.h.**

PROFESSOR SHRYOCK; ASSOCIATE PROFESSOR SYDNOR; ASSISTANT  
PROFESSORS LANNING AND STILL; AND DRS. WOODY AND MABRY

**101-102. Early European Civilization.—6 s.h.**

ASSISTANT PROFESSOR QUINN

**105-106. English Constitutional History.—6 s.h.**

MR. HAMILTON

**107-108. Social and Cultural History of England.—6 s.h.**

MR. MUNYAN

**109-110. Political and Cultural Foundations of Modern Europe, 1400-1648.—6 s.h.**

ASSOCIATE PROFESSOR NELSON

**113. American Colonial History, 1606-1783.—Prerequisites: courses 91 and 92. 3 s.h.**

DR. WOODY

**114. History of the United States since Reconstruction.—Old number 113. Prerequisites: courses 91 and 92. 3 s.h.**

ASSISTANT PROFESSOR LANNING

**Ancient History.—Greek 113—Latin 132.****119-120. Social and Economic History of the American People.—Old number 119. Prerequisites: courses 91 and 92. 6 s.h.**

PROFESSOR SHRYOCK

[Not offered in 1938-39]

**121-122. The Church in American History.—Prerequisites: courses 91 and 92. 6 s.h.**

ASSOCIATE PROFESSOR BALDWIN

[Not offered in 1937-38]

**123-124. English History.—6 s.h.**

PROFESSOR LAPRADE

**125. The Ancient Regime, the French Revolution, and Napoleon.—3 s.h.**

[Not offered in 1938-39]

PROFESSOR CARROLL

**126. The Congress of Vienna and the Rise of the European Nations to 1870.—3 s.h.**

PROFESSOR CARROLL

[Not offered in 1938-39]

**127. History of Latin America.—3 s.h.**

ASSISTANT PROFESSOR LANNING

**130. European Expansion Overseas.—3 s.h.**

ASSISTANT PROFESSOR MANCHESTER

**135. Main Currents in European History, 1815-1914.—3 s.h.**

PROFESSOR CARROLL

**136. Europe since 1914, Including the Rise of the Totalitarian States, Russia, Italy, and Germany.—3 s.h.**

PROFESSOR CARROLL

**141-142. The Far East.—6 s.h.**

ASSOCIATE PROFESSOR CLYDE

153-154. The History of the South from Colonial Times through the Period of Reconstruction.—6 s.h. ASSOCIATE PROFESSOR SYDNOR

## FOR SENIORS AND GRADUATES

204. The Union, Confederacy, and Reconstruction.—6 s.h. DR. WOODY

209-210. Constitutional History of the United States, 1763-1860.—Old number 210. 6 s.h.

ASSOCIATE PROFESSOR SYDNOR AND ASSISTANT PROFESSOR STILL

211. The Teaching of History and the Social Studies (Education 225).—Old number 212. 3 s.h. ASSISTANT PROFESSOR MANCHESTER

215-216. History of the 'United States' Foreign Policy.—Prerequisites: courses 91 and 92. 6 s.h. ASSOCIATE PROFESSOR CLYDE

[Not offered in 1938-39]

217-218. Europe since 1870.—Old number 217. 6 s.h. PROFESSOR CARROLL

219-220. The History of the European Proletariat.—Old number 218. 6 s.h. [Not offered in 1938-39] PROFESSOR CARROLL

223-224. Medieval Institutions and Culture.—Old number 223. 6 s.h. ASSISTANT PROFESSOR QUINN

221-222. The Age of the Renaissance.—Old number 222. 6 s.h. [Not offered in 1938-39] ASSOCIATE PROFESSOR NELSON

225-226. The Age of the Reformation.—6 s.h. ASSOCIATE PROFESSOR NELSON

231. The Hispanic Colonies of the New World.—Old number 232. 3 s.h. ASSISTANT PROFESSOR LANNING

232. Hispanic Republics of the New World.—3 s.h. ASSISTANT PROFESSOR LANNING

233. The Cultural and Institutional History of Colonial Hispanic America.—3 s.h. ASSISTANT PROFESSOR LANNING

[Not offered in 1938-39]

234. Political and Social Problems in the Hispanic American Republics.—3 s.h. ASSISTANT PROFESSOR LANNING

[Not offered in 1938-39]

241. History of Modern Japan.—3 s.h. ASSOCIATE PROFESSOR CLYDE

242. History of Modern China.—3 s.h. ASSOCIATE PROFESSOR CLYDE

## DEPARTMENTAL MAJOR

*Prerequisites:* The Introductory Course in History (1-2 or 51-52).

*Major Requirements:* Students in the General Group desiring to take a major in history are required to elect twenty-four semester-hours in the Department, including six semester-hours in the Senior year from courses in the 200 group. Students desiring to take the more advanced courses in American history should elect courses 91 and 92 in the Sophomore or Junior year.

## DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in history who have passed with a grade of "B" or better courses 1-2 in the Freshman year, 91-92 in the Sophomore year, and by the end of the Junior year twelve semester-hours selected from the courses given in the 100 group.

In the Senior year, in addition to the equivalent of fifteen semester-hours of supervised reading in history, the candidate must elect with the approval of the Departmental Committee on Honors six semester-hours of work from the courses offered in the 200 group, on which he is required to make a grade of "B" or better, and sufficient related work in other departments not exceeding nine semester-hours in the Senior year to bring the total of history and related work exclusive of courses 1-2 and 91-92 but including the equivalent of fifteen semester-hours of supervised reading to a total of 48 semester-hours.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester-hours shall be devoted to the classical historians such as Herodotus, Thucydides, Tacitus, Livy, Bede, the better known chroniclers, Machiavelli, Gibbon, Hume, Voltaire, Ranke, and others; the equivalent of nine semester-hours shall be devoted to selected fields in either American or European history as the student may elect and the Departmental Committee advise.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

### LATIN AND ROMAN STUDIES

PROFESSOR ROSBOROUGH, CHAIRMAN; PROFESSOR ROGERS; ASSISTANT  
PROFESSOR GATES; INSTRUCTOR—ROSE

- |   |   |
|---|---|
| 1-2. Course for Beginners.—6 s.h.   | MR. ROSE  |
| 3. Cicero's Orations.—Prerequisite: two entrance units of Latin.  | 3 s.h.<br>MR. ROSE                              |
| 4. Vergil's Aeneid.—Prerequisite: three entrance units and Latin 57 taken in the semester preceding admission to the course unless Latin 3 was taken. | 3 s.h.<br>ASSISTANT PROFESSOR GATES OR MR. ROSE |
| 65-66. Latin Prose Composition.—2 s.h.  | MR. ROSE  |
| 41. Livy's History of Rome.—3 s.h.  | THE STAFF                                       |
| 42. Horace.—3 s.h.  | THE STAFF                                       |
| 53. Sallust and Tacitus.—Prerequisite: Latin 41-42 or an equivalent.  | 3 s.h.<br>MR. ROSE                              |
| 54. Catullus.—3 s.h.  | MR. ROSE  |
| 57. Sight Reading in Classical Latin.—1 s.h.  | THE STAFF                                       |
| 58. Sight Reading in Mediaeval Latin.—Prerequisite: at least one of the following courses: Latin 3, 4, 41, 42, and 57, or an equivalent.              | 1 s.h.<br>PROFESSOR ROSBOROUGH                  |
| 59. Roman Law.<br>[Not offered in 1938-39]  |   |
| 101. Tacitus and Suetonius.—3 s.h.  | PROFESSOR ROSBOROUGH                            |
| 102. Juvenal and Persius.—3 s.h.  | PROFESSOR ROSBOROUGH                            |
| 103. The Roman Elegiac Poets.<br>[Not offered in 1938-39]   |   |
| 104. Horace: The Satires and Epistles.<br>[Not offered in 1938-39]  |   |

- 105-106. *Martial's Epigrams; Letters of the Younger Pliny.*  
[Not offered in 1938-39]
107. *Livy: Ab Urbe Condita.*—3 s.h. ASSISTANT PROFESSOR GATES
108. *Cicero's Letters.*—3 s.h. ASSISTANT PROFESSOR GATES
109. *Materials and Methods.*—Prerequisite: eighteen approved semester-hours of college Latin including courses 41, 42, 53, 54, or equivalent courses.  
3 s.h. ASSISTANT PROFESSOR GATES
- 111-112. *Roman Literature in English Translation.*—6 s.h.  
PROFESSOR ROSBOROUGH
- 113-114. *Roman Civilization.*  
[Not offered in 1938-39]
215. *Roman Art and Archeology.*  
[Not offered in 1938-39]
- 131-132. *History of Rome.*—6 s.h. PROFESSOR ROGERS
- 203-204. *Epic Poetry.*  
[Not offered in 1938-39]
- 205-206. *Roman Drama.*—6 s.h. ASSISTANT PROFESSOR GATES
- 207-208. *Roman Philosophy.*—Cicero, Lucretius, Seneca.  
[Probably not to be offered in 1938-39]
215. *Roman Art and Archaeology.*  
[Not offered in 1938-39]
216. *Topography and Monuments of Ancient Rome.*—3 s.h.  
PROFESSOR ROSBOROUGH

## DEPARTMENTAL MAJOR

*Prerequisites:* Latin 41-42, 65-66, or acceptable equivalents.

*Major Requirements:* Latin 53-54, 101-102, six semester-hours in courses numbered from 103 to 108, and six semester-hours in courses numbered from 200 to 299 to be taken in the Senior year.

In addition, all majors are expected to pursue course 131-132, *History of Rome.*

## LAW COURSES FOR ACADEMIC STUDENTS

PROFESSORS BOLICH, FULLER, LATTY, LOWNDES, MAGGS, POTEAT; ASSISTANT PROFESSOR SANDERS; INSTRUCTOR-ROALFE

The first-year program of the Law School is as follows:

- L.201. *Introduction to Procedure.*—2 s.h. PROFESSOR POTEAT
- L.203-204. *Contracts.*—6 s.h. PROFESSOR FULLER
- L.205-206. *Criminal Law and Its Administration.*—4 s.h.  
ASSISTANT PROFESSOR SANDERS
- L.207-208. *Chattel Transactions.*—4 s.h. PROFESSOR LATTY
- L.210. *Possessory Estates.*—2 s.h. PROFESSOR BOLICH
- L.211-212. *Torts.*—5 s.h. PROFESSOR MAGGS
- L.213. *Legal Bibliography.*—1 s.h. MR. ROALFE
- L.214. *Agency.*—2 s.h. PROFESSOR LOWNDES
- Orientation. STAFF

## MATHEMATICS

ASSOCIATE PROFESSOR GERGEN, CHAIRMAN; PROFESSOR ELLIOTT, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR MILES, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS RANKIN AND THOMAS; ASSOCIATE PROFESSOR CARLITZ; ASSISTANT PROFESSORS ALDRIDGE, HICKSON, PATTERSON, AND ROBERTS; INSTRUCTORS—DRESSEL AND GREENWOOD; AND ASSISTANTS

- |   |                             |
|---|-----------------------------|
| 1-2. Algebra and Trigonometry.—6 s.h.   | STAFF                       |
| 3-4. Business Mathematics.—6 s.h.   | STAFF                       |
| 7-8. First-Year Mathematics.—6 s.h.   | STAFF                       |
| 9-10. Engineering Mathematics.—10 s.h.  | STAFF                       |
| 11-12. Engineering Mathematics.—10 s.h.   | STAFF                       |
| 50. Analytic Geometry.—3 s.h.   | STAFF                       |
| 71. Mathematics of Investment.—Prerequisite: 6 semester-hours of college mathematics. 3 s.h.  | ASSISTANT PROFESSOR HICKSON |
| 74. Statistics.—Prerequisite: 6 semester-hours of college mathematics. 3 s.h.                 | ASSISTANT PROFESSOR HICKSON |
| 99-100. Differential and Integral Calculus.—Prerequisite: course 50 or the equivalent. 8 s.h. | STAFF                       |
| 131. Elementary Differential Equations.—Prerequisite: course 100. 3 s.h.                      | PROFESSOR ELLIOTT           |
| 139-140. Advanced Calculus.—Prerequisite: course 100. 6 s.h.                                  | ASSOCIATE PROFESSOR GERGEN  |
| 160. Elementary Solid Analytic Geometry.—Prerequisite: course 99. 3 s.h.                      | PROFESSOR ELLIOTT           |
| 161-162. Reading Course for Juniors.  | STAFF                       |
| 163-164. Reading Course for Seniors.  | STAFF                       |
| FOR SENIORS AND GRADUATES   |                             |
| 201. History of Mathematics.—3 s.h.<br>[Not offered in 1938-39]                               | PROFESSOR RANKIN            |
| 204. Teaching of Mathematics.—3 s.h.  | PROFESSOR RANKIN            |
| 207. Fundamental Concepts of Algebra and Geometry.—Prerequisite: course 100. 3 s.h.           | PROFESSOR RANKIN            |
| 225-226. Theory of Equations.—Prerequisite: course 99. 6 s.h.<br>[Not offered in 1938-39]     |                             |
| 227-228. Theory of Numbers.—Prerequisite: course 100. 6 s.h.                                  | ASSOCIATE PROFESSOR CARLITZ |
| 229-230. Algebraic Numbers.—Prerequisite: course 225. 6 s.h.<br>[Not offered in 1938-39]      | ASSOCIATE PROFESSOR CARLITZ |
| 235-236. Higher Algebra.—Prerequisite: course 99. 6 s.h.                                      | PROFESSOR THOMAS            |
| 250. Modern Geometry.—Prerequisite: course 99. 3 s.h.<br>[Not offered in 1938-39]             | PROFESSOR RANKIN            |



252. **Non-Euclidean Geometry.**—Prerequisite: course 100. 3 s.h.  
[Not offered in 1938-39] ASSISTANT PROFESSOR ROBERTS

255-256. **Projective Geometry.**—Prerequisite: course 99. 6 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR CARLITZ

275. **Probability.**—Prerequisite: course 100. 3 s.h.  
[Not offered in 1938-39]

281. **Elementary Potential Theory.**—Prerequisite: course 100. 3 s.h.  
ASSISTANT PROFESSOR MILES

282. **Differential Equations of Mathematical Physics.**—Prerequisite: course 100. 3 s.h.  
DR. DRESSER

283. **Fourier Series and Spherical Harmonics.**—Prerequisite: course 100. 3 s.h.  
[Not offered in 1938-39]

284. **Vector Analysis.**—Prerequisite: course 100. 3 s.h.  
[Not offered in 1938-39]

287. **Mathematical Logic.**—3 s.h.  
[Not offered in 1938-39]

288. **Foundations of Mathematics.**—3 s.h.  
[Not offered in 1938-39]

291-292. **Theory of Functions.**—Prerequisite: course 140. 6 s.h.

#### DEPARTMENTAL MAJOR

*Prerequisites:* Six semester-hours of Freshman mathematics.

*Major Requirements:* Courses 50, 99-100, and twelve semester-hours in courses numbered above 100. These twelve hours must be approved by the Department through the Director of Undergraduate Studies.

#### DEPARTMENTAL HONORS PROGRAM

Candidates for Honors in mathematics should have a practical reading knowledge of French and German. A deficiency in either should be made up, if possible, during the Junior year.

*Prerequisites:* A student who has completed course 99 and who has earned an average grade of "B" or better in his courses in mathematics may become a candidate for Honors.

##### *Honors Work:*

(a) **Work in Mathematical Courses:** To graduate with Honors a candidate must complete, with an average grade of "B" or better, a minimum of eighteen semester-hours of work in courses numbered 100 or above. At least six of these eighteen hours must be in courses numbered 200 or above.

(b) **Tutorial Work:** During the Honors program a candidate studies special topics in mathematics under the personal supervision of a tutor. A candidate must earn a minimum of six semester-hours of credit for this tutorial work. He cannot earn more than ten semester-hours for this work nor more than thirty-four semester-hours for his course work in mathematics and his tutorial work combined.

(c) **Work in Courses in Related Fields:** A candidate must earn a sufficient number of semester-hours of credit in courses in related fields to complete with the credit obtained in (a) and (b) the forty-nine semester-hours required in the Honors Group.

A candidate's program must be approved by the Departmental Honors Adviser.

*General Honors Examination:* At the end of the Senior year each candidate reading for Honors in mathematics must take a comprehensive examination on his Honors program. This examination may be written, oral, or both. Faculty members from other departments and other institutions may be invited to participate in this examination.



## MUSIC

INSTRUCTORS BROADHEAD AND BRUINSMA

63. History of Music to Beethoven.—3 s.h. MR. BROADHEAD
64. History of Music from Beethoven to the Present.—3 s.h. MR. BROADHEAD
- 111-112. Harmony.—6 s.h. MR. BROADHEAD

## PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN; ASSOCIATE PROFESSOR MORGAN, DIRECTOR OF UNDERGRADUATE STUDIES; DR. McLARTY, SUPERVISOR OF FRESHMAN INSTRUCTION; ACTING PROFESSOR DUBS; PROFESSORS GILBERT, SMITH, AND STERN;\* AND ASSISTANT PROFESSOR LEONARD

*For courses marked \* there is a prerequisite of three hours, and those marked † six hours of philosophy; admission otherwise by permission of the instructor. Sophomores may in general take courses prescribed for Juniors by permission of the instructor.*

48. Introduction to Logic and Scientific Method.—3 s.h. ASSISTANT PROFESSOR LEONARD
98. Introduction to Ethics.—3 s.h. PROFESSOR GILBERT AND ASSOCIATE PROFESSOR MORGAN
101. Introduction to Philosophy.—3 s.h. PROFESSOR WIDGERY (*first semester*)  
DR. McLARTY (*second semester*)  
PROFESSOR GILBERT
105. Introduction to the History of Philosophy: Ancient and Medieval.—3 s.h. DR. McLARTY
106. Introduction to the History of Philosophy: Modern.—3 s.h. DR. McLARTY
108. Philosophical Ideas in Ancient Greek and Roman Culture. DR. McLARTY
- 109-110. Plato.—Euripides.—6 s.h. ASSISTANT PROFESSOR WAY
111. Seventeenth-Century Philosophy, with Special Reference to Spinoza.\*—3 s.h. PROFESSOR GILBERT
112. The Development of American Philosophy.\*—3 s.h. ASSOCIATE PROFESSOR MORGAN
119. Fundamentals of Christian Morality: An Introduction to Christian Ethics.—3 s.h. DR. McLARTY
121. The Philosophy of Plato.—3 s.h. DR. McLARTY

FOR SENIORS AND GRADUATES

- 201-202. The Philosophy of Art.—6 s.h. PROFESSOR GILBERT
203. The Philosophy of Conduct.—3 s.h.† ASSOCIATE PROFESSOR MORGAN
204. Christian Ethics.—3 s.h. PROFESSOR SMITH

\* Deceased, March 27, 1938.

205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY
206. Modern Political Theory.—3 s.h. PROFESSOR WILSON
207. Political Thought to the Seventeenth Century.—3 s.h.  
PROFESSOR WILSON
208. Political Philosophy.—3 s.h. ASSOCIATE PROFESSOR MORGAN
- 209-210. The Philosophy of Religion.—6 s.h. PROFESSOR WIDGERY  
[Not offered in 1938-39]
212. Psychology of Belief.—2 s.h. ASSOCIATE PROFESSOR LUNDHOLM
- 213-214. History of Aesthetics.—6 s.h. PROFESSOR GILBERT  
[Not offered in 1938-39]
- 215-216. Plato.—6 s.h. ASSISTANT PROFESSOR WAY
217. The Philosophy of Aristotle.\*—Prerequisite: course 105.  
[Not offered in 1938-39] DR. McLARTY
- 219-220. The Age of the Renaissance.—6 s.h.  
ASSISTANT PROFESSOR NELSON
222. Philosophical and Psychological Problems of Critical Personalism.—  
2 s.h. PROFESSOR STERN  
[Not offered in 1938-39]
224. Contemporary Philosophy.—3 s.h.† PROFESSOR WIDGERY
226. The History of Ethics.—3 s.h.\* ASSOCIATE PROFESSOR MORGAN  
[Not offered in 1938-39]
227. Mathematical Logic.—3 s.h. Mathematics 287.  
[Not offered in 1938-39]
228. Fundamental Concepts of Mathematics.—3 s.h. Mathematics 288.  
[Not offered in 1938-39]
- 229-230. Contemporary Physics.—6 s.h. Physics 213-214.  
ASSISTANT PROFESSORS NIELSEN AND CONSTANT AND DR. MOUZON
- 231-232. Philosophy of Science. ASSISTANT PROFESSOR LEONARD
234. Introduction to the Philosophy of Education.—3 s.h.  
PROFESSOR HOLTON
236. Oriental Philosophy.—3 s.h. ACTING PROFESSOR DUBS  
[Not offered in 1938-39]
238. Oriental Philosophy.—3 s.h. PROFESSOR WIDGERY
241. Logic.—3 s.h. ASSISTANT PROFESSOR LEONARD
242. Scientific Methodology.—3 s.h. ASSISTANT PROFESSOR LEONARD
244. European Thought in the Latter Half of the Nineteenth Century.  
with special Reference to Nietzsche.—Prerequisite: 6 hours; admission other-  
wise by permission of the instructor. 3 s.h. ASSOCIATE PROFESSOR MORGAN
- 245-246. Philosophical Foundations of Religious Belief.—6 s.h.  
ACTING PROFESSOR DUBS
248. Philosophy of Values.—2 s.h. PROFESSOR STERN

**DEPARTMENTAL MAJOR**

The student is required to take courses amounting to at least eighteen credit hours in the Department. Of these six must be Philosophy 105-106, Introduction to the History of Philosophy; and six must be from courses in the 200 series. The student is advised to consult with an instructor in the Department as to the courses most suitable to fit in his general plan of study.

**DEPARTMENTAL HONORS PROGRAM**

a. For admission to candidacy for Honors in philosophy, the student at the close of his Sophomore year must have obtained in that year grades of "A" or "B" in courses which in the judgment of the Departmental Committee justify his admission as a candidate for Honors in philosophy.

b. Candidates for Honors shall complete the following program of work: six credit hours in the following subjects: 1. Introduction to Philosophy; 2. Introduction to the History of Philosophy; 3. Logic and Scientific Methodology; 4. Philosophy of Conduct and Christian Ethics; 5. Aesthetics; *or* Philosophy of History and Political Philosophy; *or* Philosophy of Religion. By permission of the Departmental Committee a student may substitute for some of the above-mentioned courses others from the departmental list of courses which may in the opinion of the Committee be more suitable in his individual case.

c. Candidates must complete courses totaling not less than six credit hours in one of the following fields; such courses to be in the 200 series: mathematics, physics, biology, psychology, sociology, economics, political science, psychology of religion.

d. Candidates will be allowed thirteen credit hours for directed and supervised reading around a special subject upon which an essay must be prepared for submission not later than May 15 of the year of graduation.

e. Candidates will be given a comprehensive examination sometime in the latter half of May in the year of graduation; such examination to be five three-hour papers upon subjects selected from those mentioned above, such selection to be by the particular Honors supervisor in consultation with the student.

**PHILOSOPHY IN DIVISIONAL HONORS**

Philosophy is included in the programs for Divisional Honors in:

(A) Humanities (with English Literature and Fine Arts).

(B) Social Sciences (with Economics and Political Science).

For details concerning these Divisional Honors, see pages 00-08.

The philosophical section will include supervised readings and tutorial instruction, as follows:

(A) The Humanities:

(1) Greek Philosophy.

(2) Aesthetics.

DR. McLARTY  
PROFESSOR GILBERT

(B) The Social Sciences:

(1) Ethics.

(2) Social Philosophy.

DR. McLARTY  
ASSOCIATE PROFESSOR MORGAN

**PHYSICS**

PROFESSOR NIELSEN, CHAIRMAN; PROFESSOR HATLEY, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR CARPENTER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS EDWARDS, NORDHEIM, SPONER; ASSISTANT PROFESSORS CONSTANT AND MOUZON; INSTRUCTORS—BONNER, HEBB; AND ASSISTANTS

**1-2. Introductory Physics.—8 s.h.**

ASSISTANT PROFESSOR CARPENTER; PROFESSORS EDWARDS  
AND HATLEY; AND ASSISTANTS

51-52. General Physics.—Prerequisite: Mathematics 7-8 or equivalent.  
10 s.h.

PROFESSOR HATLEY; ASSISTANT PROFESSOR CARPENTER; AND ASSISTANTS

57-58. Physics for Engineers.—10 s.h.

ASSISTANT PROFESSOR MOUZON AND ASSISTANT

59-60. Elementary Atomic Physics.—6 s.h.

PROFESSOR NIELSEN

61. Mechanics.—Prerequisite: a year course in general college physics.  
3 s.h.

ASSISTANT PROFESSOR CARPENTER

62. Heat.—Prerequisite: a year course in general physics. 3 s.h.

ASSISTANT PROFESSOR CARPENTER

65-66. Intermediate Physics.—Prerequisite: Physics 1-2 or its equivalent.  
6 s.h.

PROFESSOR EDWARDS

103. Electricity and Magnetism.—Prerequisite: a year course in general college physics. 3 s.h.

ASSISTANT PROFESSOR CONSTANT

104. Electrical Measurements.—A fundamental course in electrical engineering or course 103 is a prerequisite. 3 s.h.

PROFESSOR NIELSEN AND ASSISTANT PROFESSOR CONSTANT

106. Photography.—Prerequisite: a year course in general physics and the consent of the instructor. 3 s.h.

Mr. \_\_\_\_\_

203-204. Analytical Mechanics.—6 s.h.

ASSISTANT PROFESSOR MOUZON

205-206. Physical Optics.—6 s.h.

PROFESSOR HATLEY

211. History of Physics.—2 s.h.

PROFESSOR EDWARDS

213-214. Contemporary Physics.—6 s.h.

ASSISTANT PROFESSOR CONSTANT

215-216. Atomic Physics Laboratory.—2 s.h.

PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

217-218. Advanced General Physics Laboratory.—2 s.h.

PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

221-222. Introduction to Theoretical Physics.—6 s.h.

ASSISTANT PROFESSOR CONSTANT

#### DEPARTMENTAL MAJORS

A. For the degree of A.B.

*Prerequisites:* Physics 1-2 or 51-52 or 57-58 and Mathematics 1-2 or 7-8 or the equivalent.

*Major Requirements:* The student must have 12 s.h. from Physics 59, 60, 61, 62, 103, 104 and must complete 203-204 and 213-214.

B. For the degree of B.S.

*Prerequisites:* Physics 1-2 or 51-52 or 57-58 and Mathematics 1-2 or 7-8 or the equivalent and Chemistry 1-2.

*Major Requirements:* The student must have had 6 s.h. from Physics 59, 60, 61, 62, 103, 104 and must complete 213-214, 215-216 and 221-222.

#### DEPARTMENTAL HONORS PROGRAM

*Prerequisites:* Physics 1-2 or 51-52 or 57-58; Chemistry 1-2 and Mathematics 1-2 or 7-8 or the equivalent.

*Honors Work:* Physics 103-104, 215-216, and 221-222; Mathematics 99-100 and either a course in geology or an advanced course in chemistry, botany, zoology or a mathematics course beyond integral calculus.

In addition, the student will arrange with his Adviser for the performance of a limited number of elementary physical investigations. This will consist of both readings and experimental work which in general will constitute a survey of the classical and modern aspects of physics. The credit allowed for this may range from 9 to 10 hours depending upon the amount and quality of the work done.

At the end of both the Junior and Senior years the student will be given both an oral and a written examination in the field of physics.

### POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN; PROFESSOR RANKIN, DIRECTOR OF UNDERGRADUATE STUDIES; DR. GIBSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR VON BECKERATH; ASSOCIATE PROFESSORS COLE AND SHIPMAN; INSTRUCTORS—LINEBARGER AND SIMPSON

21. Principles of Government.—3 s.h. DR. GIBSON
22. Governmental Problems in International Relations.—3 s.h.  
DR. GIBSON AND DR. LINEBARGER
- 61-62. American Government and Politics.—6 s.h.  
PROFESSORS RANKIN AND WILSON; ASSOCIATE PROFESSOR COLE; DR. GIBSON, DR. LINEBARGER, DR. SIMPSON
113. Colonialism and Nationalism in Northern and Southeastern Asia.—3 s.h. DR. LINEBARGER
125. American Political Parties and Practical Politics.—3 s.h.  
ASSOCIATE PROFESSOR COLE
136. Major European Governments.—3 s.h. ASSOCIATE PROFESSOR COLE
164. Government Control of Railroads.—3 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR COLE
172. Government and Agriculture.—3 s.h. PROFESSOR VON BECKERATH
207. American Constitutional Law and Theory.—3 s.h.  
PROFESSOR WILSON
209. State and Local Government in the United States.—3 s.h.  
PROFESSOR RANKIN
211. Political Institutions of the Far East.—3 s.h. DR. LINEBARGER
212. International Politics of the Far East.—3 s.h. DR. LINEBARGER
223. Political Thought to the Seventeenth Century.—3 s.h.  
[Not offered in 1938-39] PROFESSOR WILSON
224. Modern Political Theory.—3 s.h.  
[Not offered in 1938-39] PROFESSOR WILSON
- 225-226. Comparative Government.—6 s.h. ASSOCIATE PROFESSOR COLE
- 227-228. International Law and International Organization.—6 s.h.  
PROFESSOR WILSON



229. Recent and Contemporary Political Theory.—3 s.h.  
ASSOCIATE PROFESSOR COLE
230. American Political Institutions.—3 s.h. PROFESSOR RANKIN
- 241-242. Principles of Public Administration.—6 s.h.
244. Problems in Public Administration.—3 s.h.
271. Socio-Politics and Capitalism.—3 s.h. PROFESSOR VON BECKERATH
291. Municipal Government.—3 s.h. PROFESSOR RANKIN
292. Municipal Administration.—3 s.h. PROFESSOR RANKIN  
[Not offered in 1938-39]

## DEPARTMENTAL MAJOR

*Prerequisite:* Political Science 61-62.

*Major Requirements:* Eighteen semester-hours of work in the Department above Course 61-62, including at least nine semester-hours in Senior-Graduate courses. Courses 21 and 22 may not be counted toward a major.

## HONORS WORK

The Departments of Political Science, Economics, and Philosophy form an Honors Group within the Division of the Social Sciences.

Honors readings in political science are as follows:

- Comparative Government. ASSOCIATE PROFESSOR COLE
- Political Theory. ASSOCIATE PROFESSOR COLE
- Government Regulation and Industry. STAFF

## PSYCHOLOGY

PROFESSOR MCDUGALL, CHAIRMAN; ASSOCIATE PROFESSOR ZENER, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS LUNDHOLM, RHINE, AND STERN;\*\*  
ASSISTANT PROFESSOR ADAMS; INSTRUCTORS—MCCULLOCH AND PRATT

- \*101. Introduction to Psychology: General Principles of Mental Activity.—3 s.h.

Section 1 and 2. PROFESSOR LUNDHOLM AND ASSOCIATE PROFESSOR ZENER

Section 3. DR. PRATT

102. Introduction to Psychology: With Special Reference to the Life and Growth of Intellect.—3 s.h. ASSOCIATE PROFESSOR ZENER  
[Not offered in 1938-39]

104. Comparative Psychology.—3 s.h.  
ASSISTANT PROFESSOR ADAMS AND DR. MCCULLOCH

- 107-108. Psychological Analysis of Prominent Characters in Literature.—Selected Seniors and Juniors only. 2 s.h. PROFESSOR LUNDHOLM

114. Psychology of Personality.—3 s.h. PROFESSOR RHINE

\* This course is a prerequisite for all other courses in psychology. It is not open to students of lower standing than Juniors, except Sophomores who have made an average grade of "B" or better.

\*\* Deceased, March 27, 1938.



115. Introduction to Child Psychology.—3 s.h.  
ASSISTANT PROFESSOR ADAMS
201. Social Psychology.—2 s.h.  
[Not offered in 1938-39] PROFESSOR McDUGALL
202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM
204. Psychology of Motivation.—3 s.h. ASSOCIATE PROFESSOR ZENER
205. General Psychology (Activity, Feeling, Willing).—2 s.h.  
PROFESSOR STERN
207. Experimental Psychology.—3 s.h. ASSOCIATE PROFESSOR ZENER
209. Advanced Laboratory Methods in Psychology, with Lectures.—  
4 s.h. ASSOCIATE PROFESSOR ZENER
211. Neurological Foundations of Behavior: A Comparative Study of the  
Structure and Function of the Nervous System in Relation to Behavior.—  
4 s.h. ASSOCIATE PROFESSOR ZENER  
[Not offered in 1938-39]
212. Developmental Psychology.—3 s.h. PROFESSOR STERN
216. Seminar in Comparative Psychology.—2 or 3 s.h.  
ASSISTANT PROFESSOR ADAMS AND DR. MCCULLOCH
217. Gestalt Theory.—3 s.h. ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]
219. History of Psychology.—2 s.h. PROFESSOR McDUGALL
222. Philosophical and Psychological Problems of Critical Personalism.—  
2 s.h. PROFESSOR STERN  
[Not offered in 1938-39]
223. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM
226. Contemporary Schools of Psychology.—Graduates and Seniors with  
permission of instructor. 3 s.h. ASSOCIATE PROFESSOR ZENER  
[Not offered in 1938-39]
228. Psychology of Belief.—2 s.h. PROFESSOR LUNDHOLM
229. Seminar in Child Psychology.—2 or 3 s.h. PROFESSOR STERN
230. Seminar on Personalistic Psychology.—2 or 3 s.h. PROFESSOR STERN
- 231-232. Introduction to Research.—2 or 3 s.h.  
PROFESSORS McDUGALL, LUNDHOLM, RHINE AND STERN; ASSOCIATE  
PROFESSOR ZENER; ASSISTANT PROFESSOR ADAMS
233. Social Psychology of Value and Valuation.—2 s.h.  
PROFESSOR McDUGALL

#### DEPARTMENTAL MAJOR

*Prerequisites:* Zoology 1 and 2 or Botany 1 and 2, or equivalent courses in biology.

*Major Requirements:* Psychology 101 and fifteen hours of psychology in other courses, including not less than six semester-hours in Senior-Graduate courses.

Students proposing to major in psychology are advised to consult with some member of the Department before registering, or as soon as possible afterwards.

## DEPARTMENTAL HONORS PROGRAM

A. For admission to candidacy for Honors in psychology, the student must have completed the following courses: Psychology 101,\* Zoology 1 and 2 or Botany 1 and 2 or approved equivalents.

B. Candidates for Honors shall complete:

I. Courses in psychology (*in addition to Psychology 101*) amounting to 18 semester-hours, of which courses not less than 3 shall be Senior-Graduate courses.

II. The candidate shall concentrate, under the advice of a member of the Department, in one of the three following divisions: Humanities, Social Sciences, Natural Sciences.

III. The candidate shall be assigned by his Departmental Supervisor, special reading in some defined field of psychology, and toward the end of his Senior year shall submit to the Department a written thesis on some topic within the special field defined.

IV. Upon the completion of the above requirements to the satisfaction of the Departmental Committee, the candidate will, at the close of the Senior year, be admitted to the General Honors examination (partly oral, partly written) by the Committee. The examination will cover the whole field of psychology, with particular emphasis on the field in which the candidate has done special reading.

## RELIGION

PROFESSOR MYERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR CRUM, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BRANSCOMB, CANNON, GARBER, HICKMAN, ORMOND, RUSSELL, SMITH,\*\* AND SPENCE; ASSISTANT PROFESSORS CLARK, PETRY, AND STINESPRING; INSTRUCTORS—OUTLER AND SPENCE

## 1. The English Bible.—3 s.h.

PROFESSORS MYERS AND ORMOND, ASSISTANT PROFESSOR CRUM, AND MRS. SPENCE

## 2. The English Bible.—3 s.h.

PROFESSORS MYERS AND ORMOND, ASSISTANT PROFESSOR CRUM, AND MRS. SPENCE

## 51. The History of the Hebrew People.—3 s.h.

PROFESSORS MYERS AND SPENCE; ASSISTANT PROFESSOR PETRY, AND MRS. SPENCE

## 52. New Testament Literature.—3 s.h.

PROFESSORS MYERS AND SPENCE; ASSISTANT PROFESSOR PETRY, AND MRS. SPENCE

## 101. The Social Teachings of the Prophets and Jesus.—3 s.h.

PROFESSOR ORMOND

## 102. The Christian Church in the Social Order.—3 s.h.

PROFESSOR ORMOND

## 103. The Prophets of the Old Testament.—3 s.h.

PROFESSOR MYERS

104 The History and Religion of the Jews to the Roman Period.—3 s.h.  
[Not offered in 1938-39]

PROFESSOR MYERS

115. The Life of Jesus.—3 s.h.  
[Not offered in 1938-39]

PROFESSOR MYERS

\* May be taken as Summer School course at end of Sophomore year.

\*\* Absent on leave, first semester, 1938-39.

116. The Teachings of Jesus.—3 s.h. PROFESSOR MYERS
163. Religious Education of Children.—3 s.h. MRS. SPENCE
167. Contemporary Religious Problems.—3 s.h. PROFESSOR SPENCE
169. Character Problems.—3 s.h. ASSISTANT PROFESSOR CRUN
170. Religion and the Modern Home.—3 s.h. ASSISTANT PROFESSOR CRUN
181. The Nature and Early Development of Religion.—3 s.h.  
PROFESSOR CANNON
182. Founders and Literatures of Great Religions.—3 s.h.  
PROFESSOR CANNON
- 203-204. Introduction to the Old Testament.—6 s.h. PROFESSOR RUSSELL
- 213-214. The Beginnings of Christianity.—6 s.h. PROFESSOR BRANSCOMB
- SR.270. Masterpieces of Great Religious Literature.—3 s.h.  
PROFESSOR SPENCE
275. Introduction to the Psychology of Religion.—3 s.h.  
PROFESSOR HICKMAN
276. Advanced Psychology of Religion.—Prerequisite: course 275 or its  
equivalent. 3 s.h. PROFESSOR HICKMAN
285. The Religions of the Far East.—3 s.h. ACTING PROFESSOR DUBS
- Philosophy 119. Fundamentals of Christian Morality: An Introduction to  
Christian Ethics.—3 s.h. DR. McLARTY
- Philosophy 203. The Philosophy of Conduct.—3 s.h.  
ASSOCIATE PROFESSOR MORGAN
- Philosophy 204. Christian Ethics.—3 s.h. PROFESSOR SMITH

## ELECTIVE COURSES

- 131-132. American Christianity.—Prerequisite: History 1-2 or its equiv-  
alent. 6 s.h. PROFESSOR GARBER  
[Not offered in 1938-39]
- 201-202. Introductory Hebrew.—6 s.h. ASSISTANT PROFESSOR STINESPRING
- SR.211-212. Hellenistic Greek.—6 s.h. ASSISTANT PROFESSOR CLARK
217. The New Testament in Greek.—Prerequisite: six semester-hours'  
study of the Greek language. 3 s.h. ASSISTANT PROFESSOR CLARK
218. Galatians and I Corinthians.—Prerequisite: New Testament 217 or  
its equivalent. 3 s.h. ASSISTANT PROFESSOR CLARK  
[Not offered in 1938-39]
219. Life of Paul.—3 s.h. PROFESSOR MYERS  
[Not offered in 1938-39]
220. I Peter and the Gospel of John.—Prerequisite: New Testament 217  
or its equivalent. 3 s.h. ASSISTANT PROFESSOR CLARK
233. Church History to the Reformation.—3 s.h.  
ASSISTANT PROFESSOR PETRY
234. History of the Evangelical Movement.—3 s.h. PROFESSOR GARBER

261. Foundations of Religious Education.—3 s.h. [Offered in second semester 1938-39]	PROFESSOR SMITH
262. Organization of Religious Education.—3 s.h. [Offered in first semester 1938-39]	PROFESSOR SPENCE
263. Curriculum of Religious Education.—3 s.h. [Not offered in 1938-39]	PROFESSOR SPENCE
SR.265. Religious Drama.—3 s.h.	PROFESSOR SPENCE
266. Educational Aspects of Worship.—3 s.h.	PROFESSOR SMITH
267. Technic of Teaching Religion.—3 s.h. [Offered in second semester 1938-39]	PROFESSOR SPENCE
SR.268. Religious Drama Construction and Production.—3 s.h.	PROFESSOR SPENCE
281. Living Religions of the World.—3 s.h. (Old number 282.)	PROFESSOR CANNON
283. Expansion of Christianity.—3 s.h. [Not offered in 1938-39]	PROFESSOR CANNON
284. Comparative Religion.—Prerequisite: 181-182. (Old number 384.) 3 s.h.	PROFESSOR CANNON
286. The Religions of India.—3 s.h. [Not offered in 1938-39]	PROFESSOR CANNON
288. Mohammedanism.—Prerequisite: 181-182. (Old number 384.) 3 s.h. [Not offered in 1938-39]	PROFESSOR CANNON
289. Buddhism.—Prerequisite: 181-182. (Old number 383.) 3 s.h.	PROFESSOR CANNON

#### DEPARTMENTAL MAJOR

*Prerequisite:* Religion 1-2.

*Major Requirements:* A major in the Department of Religion consists of twenty-four semester-hours of work, exclusive of courses primarily for Freshmen eighteen semester-hours of which shall be selected with the approval of the instructor under whose supervision the student does his major work.

#### DEPARTMENTAL HONORS

For admission to candidacy for Honors in the Department of Religion the student must have completed either Religion 1-2 or 51-52 with a grade of "B" or better in these courses, and have no grade of "D" in other subjects taken in the Freshman and Sophomore years.

Candidates for Honors shall complete the following: at least eighteen semester-hours of work in the regular curriculum courses of this Department, six semester-hours of which must be of Senior-Graduate level; twenty-one semester-hours of regular curriculum courses in related departments: Honors readings and tutorial work equivalent to ten semester-hours of course work.

The student in the Honors course shall prepare during the first year a preliminary report upon some subject embraced in his Honors readings. The following year, he shall prepare a more complete report or essay.

The final examination will be both oral and written, covering the general field of the candidate's study and the special field in which he has done his Honors readings.

## ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DAVIS, SUPERVISOR OF FRESHMAN INSTRUCTION IN FRENCH; INSTRUCTOR HASBROUCK, SUPERVISOR OF FRESHMAN INSTRUCTION IN SPANISH; PROFESSORS COWPER AND JORDAN\*; ASSOCIATE PROFESSORS LUNDEBERG AND WALTON; ASSISTANT PROFESSORS BRIDGERS, QUINN, AND YOUNG; INSTRUCTORS—AVILÉS, DOW, RAYMOND; MME. LINIÈRE DOW; AND ASSISTANTS

## FRENCH

**1-2. Elementary French.—6 s.h.**

ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSOR BRIDGERS; MR. DOW

**3-4. French Prose.—Prerequisites: French 1 and 2, or two years of high-school French. 6 s.h.**

PROFESSORS WEBB, COWPER, AND JORDAN; ASSISTANT PROFESSORS DAVIS AND QUINN; MR. DOW AND MISS RAYMOND

**51-52. Introduction to French Literature.—Prerequisites: French 3 and 4 or equivalent. 6 s.h.**

PROFESSORS COWPER AND JORDAN; ASSISTANT PROFESSORS BRIDGERS, DAVIS, AND YOUNG; MR. DOW AND MISS RAYMOND

**57-58. Introduction to French Literature.—Prerequisites: French 3 and 4 or equivalent. 6 s.h.**

PROFESSOR WEBB; ASSOCIATE PROFESSOR WALTON;

ASSISTANT PROFESSOR QUINN

*Students will take course 51-52 or 57-58. They will not take both 51 and 57 or 52 and 58. Total credit in these courses is limited to six semester-hours. They are the basic prerequisites to all higher courses.*

**55. Exercises in Spoken French.—1 s.h.**

MME. LINIÈRE DOW

**56. Exercises in Spoken French.—1 s.h.**

MME. LINIÈRE DOW

**87-88. French Writers of the Romantic Movement.—3 s.h.**

ASSISTANT PROFESSOR DAVIS

*May not be taken with or in addition to course 108.*

**107. French Composition.—3 s.h.**

PROFESSOR COWPER AND MISS RAYMOND

**108. The French Romantic Movement.—3 s.h.**

PROFESSOR COWPER AND MISS RAYMOND

*May not be taken with or in addition to course 87-88.*

**109. Molière.—3 s.h.**

PROFESSOR WEBB

[Not offered in 1938-39]

**110. Poems of Victor Hugo.—3 s.h.**

PROFESSOR WEBB

[Not offered in 1938-39]

**111. French Drama since 1850.—3 s.h.**

ASSISTANT PROFESSOR YOUNG

**112. French Drama since 1850.—3 s.h.**

ASSISTANT PROFESSOR YOUNG

**113. French Classicism.—3 s.h.**

ASSOCIATE PROFESSOR WALTON

**114. French Classicism.—3 s.h.**

ASSOCIATE PROFESSOR WALTON

**127. Advanced French Composition.—Prerequisite: French 107 or equivalent. 3 s.h.**

MME. LINIÈRE DOW

\* Absent on leave, second semester, 1938-39.



128. **Advanced French Composition.**—Prerequisite: course 107. 3 s.h.  
MME. LINIÈRE DOW
- 215-216. **The Modern French Novel.**—Prerequisite: 6 s.h. from courses 87-88 and 108 to 114, inclusive. 6 s.h.  
PROFESSOR JORDAN
217. **French Phonetics.**—Prerequisite: 3 s.h. from courses 107 or 127-128. 3 s.h.  
PROFESSOR WEBB
218. **Materials and Methods.**—Prerequisite: course 107 or equivalent. 3 s.h.  
PROFESSOR WEBB
219. **Old French.**—3 s.h.  
[Not offered in 1938-39] PROFESSOR COWPER
220. **Old French.**—3 s.h.  
[Not offered in 1938-39] PROFESSOR COWPER
227. **French Poetry since Theophile Gautier.**—3 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR WALTON
232. **Rousseau and the Beginnings of Romanticism.**—3 s.h.  
PROFESSOR COWPER
233. **Main Currents of Modern French Literature.**—3 s.h.  
ASSOCIATE PROFESSOR WALTON
- ITALIAN**
- 181-182. **Italian.**—6 s.h.  
PROFESSOR WEBB
- SPANISH**
- 1-2. **Elementary Spanish.**—6 s.h.  
ASSISTANT PROFESSORS DAVIS, QUINN, AND YOUNG;  
DRS. AVILÉS AND HASBROUCK
- 3-4. **Intermediate Spanish.**—Prerequisites: Spanish 1-2 or two years of high-school Spanish. 6 s.h.  
ASSOCIATE PROFESSOR LUNDEBERG; ASSISTANT PROFESSORS BRIDGERS AND QUINN; DRS. AVILÉS AND HASBROUCK
65. **Introduction to Modern Spanish Literature.**—Prerequisite: Spanish 3-4 or equivalent or Spanish 101-102 with permission. 3 s.h.  
ASSOCIATE PROFESSOR LUNDEBERG; DRS. AVILÉS AND HASBROUCK
66. **Introduction to Spanish Literature of the Golden Age.**—Prerequisite: Spanish 65 or equivalent. 3 s.h.  
ASSOCIATE PROFESSOR LUNDEBERG; DRS. AVILÉS AND HASBROUCK
- 101-102. **Elementary Spanish.**—6 s.h.  
DR. HASBROUCK
153. **Spanish Phonetics.**—Prerequisites: Spanish 65-66, or 3-4 and 101-102 with permission. 3 s.h.  
ASSOCIATE PROFESSOR LUNDEBERG
154. **Advanced Spanish Composition and Conversation.**—Prerequisite: Spanish 153. (Enrollment limited to fifteen students.) 3 s.h.  
DR. AVILÉS
155. **Literatura Hispanoamericana: La Pampa, Payadores y Gauchos en la Literatura Americana.**—Prerequisites: Spanish 65-66 or 3-4 with permission. 3 s.h.  
[Not offered in 1938-39] DR. AVILÉS
156. **La Tendencia Modernista en la Literatura Americana.**—Prerequisite: Spanish 155. 3 s.h.  
[Not offered in 1938-39] DR. AVILÉS



157-158. **The Modern Spanish Theater.**—Prerequisite: Spanish 65-66 or 3-4 with permission. 6 s.h. DR. HASBROUCK

261-262. **The Modern Spanish Novel.**—Prerequisites: 6 s.h. from courses 153 to 158 inclusive, or 65-66 with permission. 6 s.h. ASSOCIATE PROFESSOR LUNDEBERG

265. **Golden Age Literature: Cervantes.**—Prerequisites: 6 s.h. from courses 153 to 158 inclusive, or 65-66 with permission. 3 s.h. ASSOCIATE PROFESSOR LUNDEBERG  
[Not offered in 1938-39]

266. **Golden Age Literature: The Don Juan Theme.**—Prerequisites: 6 s.h. from the courses 153 to 158 inclusive, or 65-66 with permission. 3 s.h. ASSOCIATE PROFESSOR LUNDEBERG  
[Not offered in 1938-39]

#### DEPARTMENTAL MAJORS

*Prerequisites:* French 1-2, 3-4, or equivalent, for French. Spanish 1-2, 3-4, or equivalent, for Spanish.

*Major Requirements:* In French, twenty-four semester-hours of work must be completed in courses above the Freshman level, and must include: (a) six semester-hours from the group 107, 127-128, 217; (b) six semester-hours of literature in courses numbered 215 to 232. Students desiring the recommendation of the Department for the teaching of French will take in addition French 218.

In Spanish, twenty-four semester-hours must be completed as follows: eighteen hours in the courses 65-66, 153-154, 155-156, 157-158; six hours from the group 261-262, 265-266.

#### SOCIOLOGY

PROFESSOR ELLWOOD,\* CHAIRMAN; PROFESSOR JENSEN, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR HART; ASSISTANT PROFESSOR THOMPSON

91-92. **General Sociology.**—6 s.h. PROFESSOR JENSEN

101. **General Sociology.**—5 s.h. PROFESSOR ELLWOOD

102. **General Sociology.**—5 s.h.

109. **Sociology of the South.**—Prerequisite: course 91-92 or 101. 3 s.h. ASSISTANT PROFESSOR THOMPSON

111. **Introduction to Child Welfare.**—Prerequisite: Course 91-92 or 101. 3 s.h. PROFESSOR JENSEN

114. **Race Relations.**—Prerequisite: course 91-92 or 101. 3 s.h. ASSISTANT PROFESSOR THOMPSON

205. **Social Pathology.**—Prerequisite: course 91-92 or 101. 3 s.h. PROFESSOR JENSEN

206. **Criminology.**—Prerequisite: course 91-92 or 101. 3 s.h. PROFESSOR JENSEN

212. **Child Welfare.**—Prerequisite: course 91-92 or 101. 3 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]

213. **Constructive Social Policies.**—Prerequisite: course 91-92 or 101. 2 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]

219. **Urban Sociology.**—Prerequisite: course 91-92 or 101. 3 s.h. ASSISTANT PROFESSOR THOMPSON

\* Absent on leave, second semester, 1938-39.

220. **Rural Sociology.**—Prerequisite: course 91-92 or 101. 3 s.h.  
ASSISTANT PROFESSOR THOMPSON
227. **Emigration and Immigration.**—Prerequisite: course 91-92 or 101.  
3 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]
231. **General Anthropology.**—3 s.h. PROFESSOR HART
232. **Cultural Anthropology.**—3 s.h. PROFESSOR HART
233. **The World Crisis in the Light of Social Anthropology.**—Prerequisite:  
courses in General Anthropology and in General Sociology, or equivalent.  
3 s.h. PROFESSOR HART
234. **Social Ethics.**—3 s.h. PROFESSOR HART
238. **The American Indian.**—3 s.h.  
[Not offered in 1938-39]
242. **Marriage and the Family.**—Prerequisite for undergraduate credit:  
Sociology 91-92 or 101. 2 s.h. PROFESSOR GROVES (U. N. C.)

## DEPARTMENTAL MAJOR

Students desiring to take a major in sociology are required to complete course 91-92 or 101 or 102 and twelve additional hours in the Department.

## ZOOLOGY

PROFESSOR PEARSE, CHAIRMAN; ASSOCIATE PROFESSOR GRAY, DIRECTOR OF UNDERGRADUATE STUDIES; DR. JEFFERS, ADVISER OF UNDERGRADUATE WOMEN; DR. BOOKHOUT, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CUNNINGHAM, HALL, HARGITT; INSTRUCTOR-JOHNSON; AND ASSISTANTS

1. **General Zoology.**—4 s.h.  
DRS. BOOKHOUT AND JEFFERS; DR. JOHNSON; AND ASSISTANTS
2. **Animal Biology.**—Prerequisite: Zoology 1. 4 s.h.  
ASSOCIATE PROFESSOR GRAY AND DR. JEFFERS; DRS. BOOKHOUT AND JOHNSON; AND ASSISTANTS
53. **Comparative Vertebrate Anatomy.**—Prerequisites: Zoology 1 and 2.  
4 s.h. ASSOCIATE PROFESSOR GRAY AND DR. JEFFERS;  
DR. JOHNSON; AND ASSISTANTS
92. **General Embryology.**—Prerequisite: Zoology 53. 4 s.h.  
PROFESSOR CUNNINGHAM; DR. JEFFERS; AND ASSISTANTS
109. **Evolution.**—Prerequisite: two years of zoology. 2 s.h.  
PROFESSOR HALL
110. **Introduction to Genetics.**—Prerequisite: one year of zoology. 2 s.h.  
DR. JOHNSON
151. **Comparative Physiology.**—Prerequisite: Zoology 53. 4 s.h.  
PROFESSOR HALL AND ASSISTANTS
156. **Vertebrate Histology.**—Prerequisite: Zoology 53. 4 s.h.  
PROFESSOR HARGITT
161. **Animal Parasites.**—Prerequisite: one year of zoology. 4 s.h.  
PROFESSOR PEARSE

174. Invertebrate Zoology.—Prerequisites: Zoology 1 and 2. 4 s.h.  
DR. BOOKHOUT
204. Advanced Parasitology.—Prerequisite: Zoology 161. 3 or 4 s.h.  
PROFESSOR PEARSE
- 219-220. Special Problems. STAFF
222. Entomology.—Prerequisite: one year of zoology. 4 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR GRAY
224. Vertebrate Zoology.—Prerequisite: Zoology 53. 4 s.h.  
ASSOCIATE PROFESSOR GRAY
229. Endocrinology.—Prerequisites: Zoology 53 and 92. 3 or 4 s.h.  
PROFESSOR CUNNINGHAM
256. Seminar: Current Developments in Physiological Zoology.—Prerequisite: Zoology 151. 2 s.h.  
PROFESSOR HALL
- RELATED COURSES WHICH MAY BE COUNTED TOWARD A MAJOR IN ZOOLOGY
- Botany 101. Principles of Heredity.—3 or 4 s.h. DR. PERRY
- Botany 202. Genetics.—4 s.h. DR. PERRY

#### DEPARTMENTAL MAJOR

*Prerequisites:* Zoology 1 and 2.

*Major Requirements:* Twenty-four semester-hours including courses 53, 92, and 151. The remaining twelve hours may be from any other courses for which the student is eligible.

#### DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in zoology a student is expected to have completed zoology courses 1, 2, 53, and 92 and not less than eight semester-hours of chemistry.

The Honors Program will not necessarily be the same for all students. Courses 151, either 156 or 174, and eight additional hours of zoology are required. From twelve to twenty semester-hours of science other than zoology will be expected; the number of hours and the courses to be taken will depend upon the needs and interests of the student.

Each student will read in such fields as history of biology, zoological theories, or in special fields, and will undertake a special problem. He will meet regularly with his Honors Adviser. He may be asked to prepare written reports on his readings and must present a written report on his problem. Readings and problem may count for nine to twelve semester-hours.

At the end of the Junior year an examination will be given to test the student's ability to correlate material and to determine his fitness to continue in the Honors Course. At the end of the Senior year a general comprehensive examination covering the entire field of study must be passed.

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#### COURSES ON THE MIDDLE AND FAR EAST

For convenience there are listed here from several departments courses dealing with Middle and Far Eastern subjects.

- The Far East.—6 s.h. History 141-142. PROFESSOR CLYDE
- History of the Foreign Relations of the United States.—6 s.h. History 215-216. PROFESSOR CLYDE  
[Offered 1939-40]

- History of Modern Japan.**—3 s.h. History 241. PROFESSOR CLYDE
- History of Modern China.**—3 s.h. History 242. PROFESSOR CLYDE
- Colonialism and Nationalism in Northern and Southeastern Asia.**—3 s.h.  
Political Science 113. DR. LINEBARGER
- Political Institutions of the Far East.**—3 s.h. Political Science 211.  
DR. LINEBARGER
- International Politics of the Far East.**—3 s.h. Political Science 212.  
DR. LINEBARGER
- Chinese Philosophy.**—3 s.h. Philosophy 236. ACTING PROFESSOR DUBS  
[Offered 1939-40]
- Indian Philosophy.**—3 s.h. Philosophy 238. PROFESSOR WIDGERY
- Oriental Art.**—3 s.h. Fine Arts 92. ASSISTANT PROFESSOR McDONALD
- Founders and Literatures of Great Religions.**—3 s.h. Religion 182.  
PROFESSOR CANNON
- Living Religions of the World.**—3 s.h. Religion 281.  
PROFESSOR CANNON
- (Open only to seniors planning to enter the School of Religion; others  
take 181-182.)
- The Religions of the Far East.**—3 s.h. Religion 285.  
ACTING PROFESSOR DUBS
- The Religions of India.**—3 s.h. Religion 286. PROFESSOR CANNON
- Christian Missions in China.**—3 s.h. Religion 287.  
ACTING PROFESSOR DUBS
- Buddhism.**—3 s.h. Religion 289. (Prerequisite: 181-182, or 281.)  
PROFESSOR CANNON

## GENERAL REGULATIONS

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The academic year is divided into two semesters. The first semester of the academic year 1938-39 begins September 21; the second, February 1. Commencement is held on Monday, after the first Sunday in June. Commencement Day, 1939, is June 5.

### MATRICULATION, REGISTRATION, AND ENROLLMENT

All students must appear before the Committee on Admission and obtain cards for admission. Cards of admission must be presented at the Treasurer's Office at the time of matriculation. All students, both old and new, are required to matriculate at the beginning of each semester and to obtain from the Treasurer a certificate of matriculation which serves also as an enrollment card.

### COURSE CARDS

Members of the Freshman, Sophomore, and Junior classes are required to submit to the Dean, not later than the date of spring registration, cards showing their selection of courses for the following year. These cards must be approved by the Dean. After being approved, the cards must be filed for permanent record in the Dean's Office.

### EXAMINATIONS

Mid-year and final examinations are held in all subjects in January and May, respectively. The examination record combined with the record made in class constitutes the student's final grade.

### REGULATIONS REGARDING GRADES

The following regulations have been adopted by the Faculty:

Grades shall be reported so as to indicate one of four things:

(1) *Passed.* A grade of "A," "B," "C," or "D" shall indicate that a student has passed a course. The work of this group of students shall be graded according to the following system: "A": exceptional; "B": superior; "C": medium; "D": inferior.

(2) *Failed.* A grade of "F" shall indicate that the student has failed in the course and that in order to receive credit for the course he shall be obliged to take the work again in class.

(3) *Incomplete.* (a) A grade of "I" may be reported by the instructor if for any reason he is unable to report the final grade at the regular time. (b) All students (with incomplete grades) who have not satisfied the requirements of the departments concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "I" was incurred are regarded as having failed on the course concerned and must repeat the work in class in order to receive credit.



(4) *Absent from Final Examination.* (a) The grade "X" shall indicate that the student was absence from the final examination. (b) A student absent from examination and marked "X," if his absence has been excused by the Dean of the College, may receive an examination on the payment of a fee of \$3.00 to the Treasurer of the University. The department concerned shall arrange for the examination in cases where absences are incurred and excused, and the grade reported in these cases shall be that earned by the student. (c) All students (with "X" grades) who have not satisfied the requirements of the department concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "X" was incurred, are regarded as having failed on the course concerned and must repeat the work in class in order to receive credit. (d) If a student's absence from an examination is not excused by the Dean of the College, his grade for the course concerned shall be recorded as "F."

#### EXPLANATION OF QUALITY-POINT SYSTEM

The requirements for the degree are reckoned not only in semester-hours but also in quality-points. Quality-points are the points earned by a student according to his grades, for each semester-hour of credit. The grade "A" gives three quality-points for each semester-hour of credit; the grade "B" two quality-points; the grade "C" one quality-point. The grade "D" carries no credit in quality-points. For the grade "F" one quality-point is deducted for each semester-hour of failure. Credit for 122 quality-points, exclusive of those earned in physical education, is required for the degree of Bachelor of Arts or Bachelor of Science in all groups.

#### NUMBER OF HOURS OF CLASS WORK

No undergraduate student is allowed to take less than fourteen hours of class work a week without special permission of the Dean.

No undergraduate student may take more than seventeen semester-hours of work in one semester, if he fails to make eighteen quality-points on the work of the preceding semester.

#### CLASS STANDING

For a student to rank as a Sophomore, he must have to his credit twenty-four semester-hours with an average grade of "C"; as a Junior, fifty-six semester-hours with an average grade of "C"; as a Senior, ninety semester-hours, with an average grade of "C."

#### SENIOR WORK

A student of the Senior Class, irrespective of his average grade in preceding years, must, in order to be eligible for graduation, complete his work of the Senior year with an average grade of "C" or better.

#### EXCLUSION FOR FAILURE

A student of the Freshman Class entering college for the first time is not permitted to remain in the University in the second semester unless



he passes as much as six semester-hours of the work of the first semester; any other student is not permitted to remain in the University in the second semester unless he passes as much as nine semester-hours of work in the first semester.

A student of the Freshman Class is not permitted to re-enter in September, nor to enter Summer School, if he did not pass at least eighteen semester-hours of the work in the previous year; any other student is not permitted to re-enter in September, nor to enter the Summer-School, if he did not pass at least nine semester-hours of work in the second semester of the previous year and a total of eighteen semester-hours of work for the entire year.

### **STUDENTS TRANSFERRING FROM OTHER INSTITUTIONS**

Students whose advanced credits from another institution are accepted by the University will be given an average grade of "C" on the semester-hours with which they are credited, provided their grades warrant it.

### **DEFICIENCIES IN COMPOSITION**

The following regulations have been adopted by the Faculty:

1. Any Freshman who is found by the English Department to be unable to handle satisfactorily the work of composition in English 1-2 is required to take special work until he is able to do satisfactorily the regular work of English 1-2.

2. No student who has failed in English 1-2 or 53 is permitted to become a special student without continuing his work in composition until he has made up his deficiency in this work.

3. Whenever the work of a student in any subject is satisfactory to an instructor except for gross errors in English, the instructor concerned may hand in a provisional grade only. This grade may not be recorded in the college files until the student shall have improved his work in composition to the satisfaction of the English Department. A list of such provisional grades, along with evidence of deficiencies, shall be furnished the English Department each term by the officers in charge of the grades, and a report shall be made by this department when the deficiencies shall have been removed.

4. All instructors are requested to advise their students each semester concerning these regulations.

### **CANDIDATES FOR ACADEMIC DEGREES**

1. A tentative list of all candidates for the Bachelor's degree shall be prepared under the supervision of the Dean of the College as early in the college year as possible, shall be read by him to the Faculty at its first regular meeting in October, shall be furnished in copy to each department of instruction for information and reference, and also shall be posted in copy on the official bulletin board of the University for the information of the students concerned.

2. Copies of a second such tentative list likewise shall be prepared, read, and distributed by April 15.

3. A final list of all candidates for the degree shall be read by the Dean to the Faculty at its first regular meeting in May and shall be adopted by the Faculty as the final list. After the adoption of this list no name may be added to it.

4. Students who during Summer School complete the requirements for a degree shall be classified for graduation as of the year following the Summer School in which the work was completed, and their name shall so appear in the catalogue of the University and on the Commencement Program.

### THE DEAN'S LIST

Students of the Junior and Senior classes who, at the mid-year or final examinations, have attained in Duke University an average of "B" in their courses of the half-year just closed and who have not received a grade of "F" in any course may be placed on the Dean's List for the succeeding half year. The privilege of the Dean's List is also extended to eligible members of the Sophomore Class during their second semester.

The name of a student may be withdrawn from the List at any time by the Dean, if the student fails to maintain a satisfactory standard of scholarship and conduct.

Students whose names are on the Dean's List will not be subject to the general regulations of the University governing class attendance. This privilege, however, may not be exercised in courses primarily open to Freshmen. Furthermore, such students are required to be present at the meeting of classes immediately before and after any holiday, unless they are excused by the Dean of the College.

If for any reason a student is removed from the Dean's List during, or at the close of, the second semester of his Junior year, his name may not be reinstated on the List.

### CLASS ATTENDANCE AND ABSENCES

Regular and punctual attendance in class work is required of all students not on the Dean's List.

### ASSEMBLY AND CLASS MEETINGS

#### TRINITY COLLEGE

There shall be held on the first Thursday of each month of the college year in Page Auditorium, from 12:30 P.M. to 12:50 P.M., an assembly of all Seniors, Juniors, Sophomores and Advanced Freshmen of Trinity College, and at this period of the day separate meetings of these four groups on the second, third, and fourth Mondays or Thursdays of each month. There shall be a class meeting of the Freshman Class on each Saturday of every month at the time named above. The Engineering assemblies are held on the first Tuesday of each month from 12:30 P.M. to 12:50 P.M.

Attendance upon all of these meetings is compulsory for all students involved. Any student incurring in a semester a total of more than four absences from them automatically excludes himself from college.

**WOMAN'S COLLEGE**

An assembly is held each Tuesday, Wednesday, and Thursday in the Woman's College Auditorium. The hour is 12:30 P.M. on Tuesday, 12:40 P.M. on Wednesday and Thursday. Freshmen and transfer Sophomores are required to attend each day, Sophomores on Wednesday and Thursday, and Juniors and Seniors on Thursday. A meeting of the Freshman Class is held each Monday at the assembly hour, and the other classes meet at appointed times.

Attendance upon all of these meetings is compulsory for all students involved.

**SCHOLASTIC REGULATIONS FOR ATHLETIC AND  
OTHER ORGANIZATIONS**

The following regulations have been adopted by the Faculty:

1. Any student who receives less than a passing grade on more than six hours of his required work of the preceding term shall be ineligible to represent the University in any athletic contest, concert, or other public event.

2. Members of athletic teams or other student groups engaging in public representation of the University are expected to be carrying satisfactorily their current work. A student may be barred from participation in such representation if, in the opinion of the Dean, he is not doing satisfactorily his current work.

Duke University is a member of the Southern (Athletic) Conference and observes the following scholastic requirement of that Conference:

"The scholastic requirement for eligibility to participate in varsity intercollegiate sports shall be for 1938-39 the passing by the applicant of a minimum of twenty-one semester-hours or thirty quarter hours of the work of his immediately preceding year in college; thereafter the passing of twenty-four semester-hours or thirty-six quarter hours of the said work; with the proviso that graduate students and students in schools of law and medicine become scholastically eligible on the certificate of the deans of their schools."

**THE ATHLETIC COUNCIL**

The Board of Trustees, at its regular annual meeting in June, 1907, created an Athletic Council to be composed of eleven members appointed annually: three from the Faculty, to be appointed by the President of the University; four from the alumni, elected by the Alumni Association; and four from the undergraduates, one from each of the four classes, elected by the members of each class.

The three members of the Athletic Committee of the Faculty are the Faculty representatives in the Athletic Council. This committee alone has the responsibility of enforcing the scholastic and athletic requirements of the University for student participation in intercollegiate sports. The athletic eligibility rules are those of the Southern Conference; the scholarship requirements are printed elsewhere in this catalogue.

The Executive Committee of the Athletic Council is composed of the Chairman of the Faculty Committee on Athletics, and one other Faculty member and one alumni member of the Council. The Athletic Council on recommendations of its Executive Committee arranges athletic schedules, awards insignia of merit earned by members of athletic teams, and strives to promote among students of the University a proper and helpful athletic spirit; to encourage good fellowship in such sports both within the student body and toward student bodies of other educational institutions; through athletic sports to help to cultivate a high sense of honor, earnest, unselfish effort, and manly conduct. The Executive Committee of the Council recommends to the President of the University persons to serve as Graduate Manager of Athletics and as coaches in the various sports. However, the election of such persons rests solely with the Trustees of the University or the Executive Committee of the University, on recommendation of the President of the University.

All funds arising from athletics are handled entirely by the Treasurer of the University. An audit of the receipts and disbursements of these funds is made annually by the official auditors of the University.

#### **REGULATIONS REGARDING PUBLIC LECTURES AND OTHER PUBLIC OCCASIONS**

All public lectures or addresses and other public events that are given under the auspices of the University or of any organization in any way connected with the University are under the supervision of the Faculty Council on Public Lectures. All dates and programs must be approved by this council except in instances where such occasions have been placed under the supervision of the Director of Public Relations.

#### **HEALTH AND PHYSICAL EDUCATION**

The program of Health and Physical Education in Duke University has four distinct phases, as follows:

1. Student Health.
2. Physical Instruction.
3. Intramural Sports.
4. Intercollegiate Athletics.

#### **MEDICAL CARE**

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated students of the University, during both the college year and the summer quarter, at no additional cost to them beyond the medical fee of \$5.00 payable each semester or the medical fee charged each student of the summer quarter. This service is under the direction of the University Physician with the co-operation of the Staffs of the Infirmaries (one on each campus) and the University Hospital. It includes hospitalization, medical and surgical care, drugs, dressings, X-ray work, and ward nursing. A charge for board is made at the same rate as in the University dining-halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes, treatment of teeth and of all chronic ill conditions, such as the removal



of diseased tonsils and treatment of injuries incurred off the campuses, are not included in this service. The cost of any necessary braces and orthopedic appliances, as well as of special nursing, must be borne by the student.

No illness is treated in dormitory or other rooms occupied by students. Students needing treatment for minor medical or surgical conditions have the attention of the Director at his two daily visits to the Infirmarys, which have day and night nurses on duty. Students developing serious conditions are promptly transferred from the Infirmarys to the University Hospital, where they come under the care of the Staff of the Hospital.

A questionnaire is sent out from the office of the Director of Student Health in the spring to all prospective students, advising certain medical and surgical care by their home physician or surgeon, such as the giving of typhoid or smallpox vaccine, removal of diseased tonsils, correction of errors of refraction, repair of a hernia, or removal of a chronic appendix. Important time is frequently lost in correcting these conditions after entrance into college, and the cost for this work must be borne by the student.

When the student comes to the University, he is given a careful physical examination. Any physical defects are recorded along with the record of the questionnaire from the family physician. All students are requested to be successfully vaccinated against smallpox before admission to the University. It is urgently advised that they take typhoid vaccine if they have not done so within three years.

#### **PUBLICATIONS COUNCIL**

The student publications of the University are under the control of a council that was established in 1924 and reorganized by the Executive Committee of the University in 1935, and is constituted as follows: three (3) members from the University Staff appointed by the President of the University; two (2) members from the alumni appointed by the President of the University; six (6) men from the Junior and Senior classes, elected by the students in Trinity College; four (4) women from the Junior and Senior classes, elected by the students in the Woman's College; and three (3) editors and three (3) managers of student publications, ex officio members without any voting power. With the advice of the Council, the President of the University appoints each year for each publication an advisory committee of three (3) members from the Staff of the University.

No student publication can be started at the University without the approval of the Council.

#### **RELIGIOUS EXERCISES**

Chapel exercises are conducted on Tuesday, Wednesday, and Friday throughout the academic year at 12:30 P.M. on the campus for men and at 12:30 P.M. on the campus for women. Preaching services are held on Sunday at 11:00 A.M. in the University Chapel. Organ recitals are given on Sunday afternoons. In the summer carillon and organ recitals are given twice a week.

## **UNIVERSITY LECTURES**

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### **THE AVERA BIBLE LECTURES**

The Avera Bible Fund was established in 1897 in honor of the late W. H. Avera by his wife, who donated \$2500 for this purpose. The income from this amount is used to establish a lectureship and to provide a collection of books on Biblical Literature.

### **JOHN MCTYEIRE FLOWERS LECTURES**

The John McTyeire Flowers Lectures, established by Mr. B. N. Duke as a memorial to John McTyeire Flowers, a young alumnus of Trinity College who died in the Far East in 1905, were inaugurated in 1921.

### **UNIVERSITY LECTURE SERIES**

The University Series of Lectures is given each year. These lectures are under the supervision of the committee on public lectures of the faculty.

### **DUKE UNIVERSITY DAY**

In commemoration of the signing by the late James B. Duke, on December 11, 1924, of the Indenture of Trust creating the Duke Endowment, under which Trinity College was expanded into Duke University, appropriate exercises are held on Duke University Day at the University. Various local alumni groups celebrate the anniversary in connection with their annual meetings.



## **ALUMNI ORGANIZATIONS**

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### **GENERAL ALUMNI ASSOCIATION**

The Alumni Association of Duke University is composed of the male graduates and former students of Trinity College and Duke University. The Association gives its annual luncheon on Monday of Commencement Week at which a message of greeting is given by a representative of the class holding its twenty-fifth anniversary reunion. The annual business meeting of the Association is held at this time.

### **GENERAL ALUMNAE ASSOCIATION**

The Alumnae Association of Duke University is composed of the women graduates and former students of Trinity College and Duke University. The Association joins with the Alumni Association in the annual luncheon on Monday of Commencement Week, holding its annual business meeting immediately afterward.

### **GENERAL ALUMNI COUNCIL**

To give definite direction and supervision in the campaign for the erection of the Alumni Memorial Gymnasium, and for other purposes, an Alumni Council was provided for at the June, 1919, meeting of the Alumni Association. Since that time the Council has developed into a working body for the promotion of alumni interests by reason of its size and frequency of meetings. The membership is made up of representatives from local associations; class representatives, elected by reunion classes on the occasion of their fifth anniversary, or a multiple thereof; and officers of the Alumni Association.

### **GENERAL ALUMNAE COUNCIL**

At the June, 1925, meeting of the Alumnae Association the Alumnae Council was organized to function in a manner similar to that of the Alumni Council, in the interest of the former women students and of the University. Its purpose and form of organization as very much the same as those of the Alumni Council.

### **THE ALUMNI OFFICE**

The General Alumni Office was organized to promote the work of the local alumni and alumnae associations and to co-ordinate the various activities of the General Alumni and Alumnae Associations and the General Alumni and Alumnae Councils. Sixty-three county and local alumni associations have been formed in North Carolina and other states.

**DUKE UNIVERSITY NEWS SERVICE**

The Duke University News Service is the official publicity agency of the University for the purpose of sending out news to the press. It functions as a division of the Department of Public Relations and Alumni Affairs.

**THE ALUMNI REGISTER OF DUKE UNIVERSITY**

*The Alumni Register of Duke University* is a monthly magazine published by the Alumni Association in the interest of the alumni and the University. It aims to keep the alumni in touch with one another and with the University.

**APPOINTMENTS OFFICE**

With the co-operation of the Alumni Office, the University maintains an Appointments Office, in charge of a whole-time director, to serve graduates and advanced students of the institution on the one hand, and those who desire well-qualified persons for teaching and commercial positions on the other hand. The Appointments Office is divided into two sections: (1) the Division of Teacher Placement and (2) the Commercial Positions Division.

## FEES AND EXPENSES

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The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences and in history. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

### GENERAL FEES

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage fee, payable annually at the time of first registration.....	1.00
Medical fee, per semester.....	5.00
Library fee, per semester.....	5.00
Commencement fee, payable annually at the beginning of the second semester .....	3.00
Publication fee :	
First semester .....	2.50
Second semester .....	3.00
Diploma fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00

### LABORATORY AND MATERIALS FEES

Botany 1, 2, 52, 55, 104, 156, 202, 204, 221, 255, and 256.....	\$ 2.50
Botany 51, 103, 151, 203, 216, and 252.....	5.00
Forest Botany 224 and 253.....	2.50
*Chemistry 1, 2, 61, 70, 81, 142, 153, 154, 215, 216, 231, 232, 260, 261, and 262 .....	7.00
Chemistry 151, 152, 241, 242, 253, and 254.....	8.50
Education 1, 58, 68, and 101.....	1.00
Education 54 .....	2.00
(See note under history below.)	
Education 112, 115, 116, 122, and 131 .....	7.50
Education 208 (for testing materials in lieu of text).....	2.50
Engineering	
Civil S10 and S110—See <i>Summer School Bulletin</i> .	
Civil 11, 107, 111, 112, 113, 114, 117, 118, 119, 123, 124, and 240.....	2.00
Electrical 153, 154, 161, 162, 163, 258, 261, 262.....	2.00
Mechanical 189, 190, 193, 194, 199, and 200.....	2.50
Forestry 224, 253, 259, 260, 264, 357a, and 358a.....	2.50
Forestry 261, 351, 352, 357b, 358b.....	5.00
Geology 51, 52, 101, 151, and 152.....	2.50
Geology 102 .....	5.00
Field trip in Geology 51-52 and 101-102 at cost.	

\* When the laboratory in Chemistry 153-154 supplements that of another course and is taken simultaneously with such course no fee is charged for Chemistry 153-154.

History 91 and 92 .....	3.00
No texts are required in these courses, but a fee of \$3.00 is charged, and books are placed in the Library for the use of those taking the courses. This fee is payable at the beginning of the semester and is collected through the office of the Treasurer of the University.	
Physics 1 and 2.....	2.00
Physic 57, 58, 104, 205, 206, 215, 216, 217, and 218.....	3.00
Physics 51, 52, and 106.....	5.00
Zoology 1, 2, 92, 161, 174, 204, 222.....	3.00
Zoology 53, 151, 156, 224, and 229.....	5.00
Zoology, all other advanced laboratory courses.....	3.00

### TEACHERS TAKING COLLEGE COURSES

Teachers in nearby schools, taking one or two courses, are required to pay a registration fee of \$5.00 each semester and a tuition fee of \$3.00 per semester-hour of credit in addition to any regular laboratory fee or other fees collected from those students taking the courses.

### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost, while all charges made by the University have been kept low. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary college expenses for one year, including board, room-rent, and such University fees as tuition, matriculation, commencement, library, damage, and medical, vary from \$574.50 to \$639.50. Books and laundry are not included in these figures.

### LIVING ACCOMMODATIONS FOR MEN

Single room, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus .....	\$75.00
Double room, per student, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus .....	62.50
Double room, per student, per semester—Southgate Hall, East Campus..	50.00
Double room, per student, per semester—Epworth Hall, East Campus..	30.00

There are three groups of resident houses designated as Craven, Crowell, and Kilgo Quadrangles on the West Campus. The rooms are single, double, or arranged in suites of two rooms for four students. There are thirty-one houses within the three groups designated by the letters of the alphabet. There are also two dormitories on the East Campus used for men—Southgate and Epworth Halls. All of these rooms are equipped for two persons.

Kilgo Quadrangle (eight houses) has been set aside as a Freshman Dormitory. A portion of Southgate Hall has also been reserved for Freshmen studying Engineering. All Freshmen, except those living at home with their parents, are required to room in one of these dormitories.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of

\$25.00 must accompany the application for a room. The reservation fee is deducted from the room charges at the time of registration for the fall semester. An applicant who is accepted and has a room reserved is not entitled to a refund of the reservation fee unless the request is made on or before August 1.

A resident student in order to retain his room for the succeeding year is requested to make application accompanied by a reservation fee of \$25.00 between April 15 and May 15 at the office of the Director in the Business Division. All rooms which have not been reserved on or before May 15 will be considered vacant for the succeeding year and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or in the case of a medical student, one quarter, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

#### DORMITORY REGULATIONS

Duke University is particularly eager that its students shall have the best dormitory life to be found in any institution, and to encourage this has provided buildings and equipment which are not surpassed. The Institution asks and believes that in return each student will respond to this effort by arranging his personal belongings in an orderly manner, and by caring for the buildings and furniture as he would do in the home of a friend. The following regulations are offered as a guide and a reminder that care is desired.

1. The student will be held responsible for any damage to the room or furnishings during the rental period, and will pay for all damage caused by his neglect, misuse or abuse of any part of the University property. Inspections will be made throughout the college year to observe the condition of the rooms and to advise students concerning the care of rooms, if necessary.

2. Maids will prepare the rooms daily except Sunday, the service beginning promptly at 8:00 o'clock A.M. and ceasing at 1:00 o'clock P.M., thereby giving the student complete use of his room during the afternoon.

3. University furniture or furnishings must not be removed from the room in which they have been placed by the University.

4. Electric wiring, door locks, window screens, steam or water lines should not be changed or added, since the University supervises and makes such changes as are necessary and advisable.

5. Pictures, pennants, clippings should be hung from the picture moulding, and not tacked or pasted on walls or woodwork.

6. Each student is expected to supply necessary sheets, blankets, pillows, rugs and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

7. All trunks and heavy luggage will be stored in the trunk rooms. Janitors will remove the trunks from the hallways to the storage rooms when they are unpacked.

8. The exchange of rooms or keys should be arranged for at the office. Any exchanges made otherwise will subject the participant to charges for both rooms.



9. The use or possession of intoxicating liquors, wines or beer, and gambling in any manner in any of the buildings or on the grounds of Duke University is forbidden.

10. Animals shall not be kept in the dormitories.

11. Women are permitted in the dormitories only when accompanied by the University Hostess.

12. The use of dormitory rooms as a sales office or storeroom, or the solicitation for sales or gifts, within the buildings or on the grounds is prohibited except by appointees of the University.

### LIVING ACCOMMODATIONS FOR WOMEN

The Woman's College campus, known as the East Campus, is situated about a mile and a quarter from the West Campus, with a private road connecting the two.

*Houses*—The seven residence houses on the East Campus are Alsbaugh, Aycock, Bassett, Joseph G. Brown, Giles, Jarvis, and Pegram. A plan of the houses will be sent upon request to the Director in the Business Division, College Station, Durham, North Carolina. Each house has a resident head of house and paging system for announcing visitors.

*Rooms*—All questions concerning rooms should be addressed to the Director in the Business Division. The students' rooms are single, double, or arranged in suites of two rooms for two students.

*Room Furnishings*—Rooms are supplied with all necessary furniture. Curtains, towels, sheets, pillow-slips, blankets, and heavy bed covering, etc., are furnished by the students. Sash curtains of a standard type are required and can be bought at the College Store. Draperies, rugs, and study lamps can be brought from home or bought at reasonable prices from the College Store or in the City.

#### *Room Rent*—

Single room, per student, per semester, Giles, Alsbaugh, Pegram, Bassett, Brown and Jarvis Houses.....	\$87.50
Double room, per student, per semester, Giles, Alsbaugh, Pegram Bassett, Brown and Jarvis Houses.....	62.50
Single room, per student, per semester, Aycock House.....	75.00
Double room, per student, per semester, Aycock House.....	50.00

*Room Reservation*—A room reservation fee of \$25.00 is required before any room reservation can be made for new or returning students. This fee is deducted from the room charges at the time of registration for the fall semester. Applicants for admission are requested not to send the room reservation fee until notified of acceptance. Those who make application and are accepted will not be entitled to have the reservation fee refunded unless the request is made on or before July 15.

No room assignments will be made for new students until they have been officially accepted by the Council on Admissions. The room reservation fee of \$25.00 is payable immediately upon notification of acceptance by the Council on Admissions. If room reservation fee has not been received within ten days after notification of acceptance by the Council on Admissions, the admission will be cancelled.

Details relative to the signing of rooms by resident students will be posted on dormitory bulletin boards about April 15. Resident students have the right to retain their rooms for the ensuing year or to sign for new ones in the order of their class, beginning with the Seniors. The new students are then assigned the remaining rooms, and in so far as possible, the type of room which they prefer. The University is responsible for the fall semester only for securing roommates for new students desiring double rooms. After a student has been a resident for one semester, the responsibility for securing and keeping a room-



mate is transferred to the student. If a student occupying a double room does not have a roommate by the date posted, approximately two weeks after the beginning of the semester, she will be required to pay double rent. The University is glad to co-operate in assisting the student to find a roommate.

When a room is once engaged by a student no change will be permitted except with the consent of the Director in the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. Rooms are rented for no shorter period than one semester. When a student leaves school before the end of the semester, the charge is \$1.00 per day unless the total charge on this basis is in excess of the room rent for the semester. All undergraduates who are not residents of Durham are required to live in the dormitories unless they are living with their parents or near relatives. An undergraduate woman who is over twenty-one years of age and who wishes to live in the city may make special arrangements with the Dean. Provision is made for graduate students to live on the campus.

No visitors are permitted in any sections of the dormitories which are occupied by women except by permission of the office of the Head of the House. Merchandising, solicitation, or advertising of any type is strictly forbidden within the dormitories.

### BOARDING ACCOMMODATIONS

*Trinity College, West Campus.*—Beginning with the academic year 1930-31 the University opened its dining hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. Charges for board will not exceed \$25.00 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barbershop, and all publication staff offices.

In addition to the Union dining halls, the Coffee Shop is operated for the convenience of students and visitors.

*Woman's College, East Campus.*—The dining halls of the Woman's College are situated in the Union, the student center, on the East Campus. No resident woman is permitted to board elsewhere than at this Union. Board is \$112.50 per semester.

Because of the large number of those served in the Union dining halls, it is not possible to arrange special diets for individual students. Special diet for the sick is served in the Infirmary.

The Union includes a Faculty dining room, a lounge, and other rooms for various student activities.

### LAWS REGULATING PAYMENTS

The Executive Committee of Duke University has enacted the following regulations which govern the payment of all fees due the University:

1. The President and the Treasurer of the University have no authority to suspend or in any way alter these regulations.
2. Matriculation and tuition fees are never refunded.

3. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full.

4. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all of his indebtedness to the University.

5. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the mid-year or final examinations of the academic year.

When a student wishes his bills sent to his parent or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties, if his bills are not paid on the dates advertised.

### TRANSCRIPTS

Students desiring to transfer from Duke University to another institution are entitled to one transcript of their record. A charge of \$1.00 is made for each additional copy.

## SCHOLARSHIPS, LOANS, AND EMPLOYMENT AID

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Through a committee of the Faculty appointed by the President to deal with problems of rendering financial assistance to needy and worthy undergraduates both of Trinity College and the Woman's College, Duke University annually awards available scholarships, administers loan funds, and supervises student employment.

All student loan funds are kept separate and distinct from all other endowments or holdings of the University. Though some donors or their representatives may and do suggest terms and beneficiaries, no loan is made without the approval and consent of the Committee.

The scholarship funds are, in the main, endowed, though a limited number, and notably the honorary awards in recognition of scholastic merit, are financed through current funds of the University. As with the loan funds, donors of endowed scholarships may, and frequently do, make stipulated terms of the conditions of the award; but in all cases the responsible committee of the University reserves the right to approve and announce all awards. All scholarship endowments are held in trust by the University.

With few exceptions, loan and scholarship awards are limited to the amount of the tuition charges.

Prospective and old students must, if they will stop to consider, realize that no college or university has scholarship, loan, or job resources sufficient to meet all, or even a large per cent, of the requests made. A student, new or old, should realize that before he seeks aid of any institution, his need should be imperative. A student who accepts aid from a college or university when he could have done without it, unwittingly deprives some other would-be student, probably equally as worthy and more needy, of a chance to secure higher education at the institution.

Before applying to any college for aid a student should first have exhausted all means of aid from his parents, kinsfolk, interested friends, and commercial or civic agencies in his home locality.

A list of undergraduate scholarships and loans, and the procedure and terms of making application, are set forth below.

### SCHOLARSHIP FUNDS

*The Banks-Bradshaw Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The Herbert J. Bass Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The Christian Education Scholarship* is based on the annual earnings from a \$6,000 scholarship endowment.

*The E. M. Cole Scholarships* are based on the annual earnings from a \$10,000 scholarship endowment. Awards are limited to undergraduate ministerial students.

*The W. L. Cuninggim Scholarship* is based on the annual earnings from a \$7,500 scholarship endowment. Preference, at the request of the donors, is given to students entering Duke University from the Methodist Orphanage of Raleigh, North Carolina.

*The Arthur Ellis Flowers Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The Colonel George W. Flowers Scholarship* is based on the annual earnings from a \$5,000 scholarship endowment.

*The B. D. Heath Scholarship* is based on the annual earnings from a \$2,000 scholarship endowment. Preference is given to students from Union County, North Carolina.

*The Judd Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment. In making this award the donor or a representative of his family is to be consulted.

*The Frank S. Lambeth Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The O. G. B. McMullan Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The W. H. Moore Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The J. A. Odell Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The J. M. Odell Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The E. J. Parrish Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The John T. Ring Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The George W. Watts Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The C. E. Weatherby Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The McAlister Scholarship Fund* was established in 1935 by Mrs. Amelie McAlister Upshur, in memory of her mother, Armantine Reynaud McAlister, and her father, William Henry McAlister. The Scholarships provided by this fund are granted to men and women who are residents of the states of North Carolina, South Carolina and Louisiana.

A friend of Duke University has set up a scholarship fund for the use of students preferably from Durham and Perquimans counties of North Carolina. Descendants of the donor, irrespective of their place of residence, are to be given consideration for such awards. The donor has designated that a representative of his family should be consulted in the making of awards. There are at present fifteen of these scholarships. They have no fixed value. Circumstances in all cases determine the

amounts of the awards; usually, however, these scholarships are sufficient in amount to cover tuition charges.

A friend of Duke University has set up a scholarship fund the income of which is for the use of students preferably from the states of North Carolina, South Carolina, and Louisiana.

*The Angier B. Duke Memorial, Incorporated*, awards through the Scholarship Committee of Duke University four scholarships with an annual value of \$250 each to undergraduate students. These scholarships are awarded as follows: one on the basis of merit and necessity to an accredited high or preparatory school graduate entering the Freshman Class of Duke University; and one each to a member of the Sophomore, Junior, and Senior classes on the basis of merit, necessity and worthy individual contributions to university life. This fund is primarily for student loan purposes and is more fully described hereafter under "Loan Funds."

Fifteen honorary scholarships paying tuition are annually awarded to undergraduates. Five are held by members of the Sophomore Class, five by members of the Junior Class, and five by members of the Senior Class. Sophomore scholarships are awarded on the basis of scholastic work of the Freshman year; Junior scholarships on the basis of the scholastic work of the Sophomore year, and Senior scholarships on the basis of the scholastic work of the Junior year. Scholastic attainments and character are the sole bases of these awards.

Where funds are available and the need justifies, Duke University may award in any given year undergraduate scholarships partly or wholly covering tuition charges. Not in excess of fifty such awards shall be made.

Application for scholarship aid should be made to the Scholarship Committee, Secretary's Office, Duke University Station.

An application for a scholarship may not be made formally by a prospective student until application for admission has been made, all necessary credentials presented and notification of acceptance given.

### LOAN FUNDS

*The Angier B. Duke Memorial, Incorporated*, administers through an advisory committee of the officers of the University, a loan fund for students of the University. Only the earnings of this fund are available for loan purposes.

The Committee of University officers also administers other endowed loan funds established for the benefit of students of Duke University. The amount available each year depends on the annual earnings and on the amount of loans repaid.

Although the total amount of loan aid is considerable, the calls for assistance far exceed the amount available for lending purposes each year. The Committee in charge of these funds, therefore, reserves the right to select from the applicants those who in character, personality, general promise, scholastic merit, and degree of financial need, are most deserving of consideration.



The loan funds are administered in accordance with the following regulations:

1. No loan shall be made to a student who violates any of the regulations of the University or whose classwork is not satisfactory to the Faculty.

2. As a general policy a student is not potentially eligible for loan assistance until he has been in residence at least one semester and until those responsible for the administration of loan funds have had an opportunity to acquaint themselves with the worthiness and the need involved in any particular case.

3. Loans will be made only to students who are taking approved courses of study that lead to a degree, and all loans must be arranged for not later than one week after the beginning of a semester.

4. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money shall be advanced before a note with approved security is in the hands of the Treasurer of the University.

5. No loan will be made to defray any other expenses than those incurred during the academic year for tuition, for matriculation, or for room-rent.

6. Interest at a rate of 6 per cent annually shall be charged for all loans of money, and the interest must be paid annually.

7. Applications for loans should be made to the Loan Committee, Secretary's Office, Duke University Station. A formal application for loan assistance may be made only on blanks furnished in the Secretary's Office at the time of registration. The granting or withholding of a loan is a matter entirely within the discretion of the Loan Committee. A student is expected to use all other possible means of securing financial assistance before applying for aid from the Loan Fund.

### EMPLOYMENT

A number of students each year secure part-time employment on the University campus and in the city. Those in need of such employment may apply to the Secretary of the Committee on Student Aid, Secretary's Office, Duke University. No definite number of such places can be promised. Available places will be assigned in accordance with the merit and the need of the applicants.



## HONORS AND PRIZES

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To be eligible for Honors a student must earn during the year a credit of not less than thirty semester-hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality-points per semester-hour are given Honors. All semester-hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Arts or of Bachelor of Science with distinction is conferred under the following rules:

Students who have completed a minimum of ninety semester-hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality-points per semester-hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality-points per semester-hour are recommended for a degree *summa cum laude*. All semester-hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

## MEDALS AND PRIZES

The *Wiley Gray Medal* was established by the late Robert T. Gray, Esq., of Raleigh, North Carolina, to be awarded annually in memory of his brother. It is given for the graduating oration that shall be, in the opinion of a committee, the best speech, with respect to both declamation and composition.

The *Debate Council* authorizes the awarding of medals to members of the graduating class who have represented the University in at least two intercollegiate debates. The medals are given by the local chapter of the Tau Kappa Alpha Fraternity.

The *Robert E. Lee Prize* is the gift of the Reverend A. W. Plyler, of the Class of 1892, and Mrs. Plyler. The sum of \$50 is awarded annually at Commencement, preferably to that member of the Senior Class who in character and conduct, in scholarship and athletic achievement, in manly virtues and the capacity for leadership, has most nearly realized the standard of the ideal student. The Dean of the College, the Graduate Manager of Athletics, and the President of the Student Council constitute a committee to draft and adopt regulations governing the award.

The *Dr. R. C. Parker Physics Prize*. Dr. R. C. Parker gave to Duke University a silver cup of Chinese manufacture to be used for the encouragement of scholarship in physics. The award is made annually by a committee from the Department of Physics, acting with the President of the University, to that student of Physics 1-2 who by the end of the academic year is judged to have shown the greatest promise as a student of physics. The winner is chosen not only for his mathematical grades

but also for his industry, growth in power of reasoning, originality of point of view, and skill in experimentation. The name of the winner is engraved on the cup which is given into his possession, subject to certain necessary regulations, until the next award is made.

*The Iota Gamma Pi Scientific Prize.* The Iota Gamma Pi Science Fraternity offers an annual prize of \$25 to a member of the Junior Class, majoring in science, who is judged to be the leading student in the scientific courses of the University. The fraternity submits to the judges a list of students eligible for the prize. The committee of award is composed of the Dean of the University and one member each from the Departments of Geology, Botany, Zoology, Chemistry, Physics, and Engineering. The departments concerned choose their own representatives on this committee. The award is made on the following basis: quality of scientific work, 50 points; personality and general ability, 30 points; quality of work in departments other than scientific, 20 points. The president of the fraternity publicly awards the prize in chapel during the second week in May.

*Alpha Kappa Psi Medallion.* This prize is offered each year to the member of the graduating class who makes the highest record in economics and business administration during his career at the University.

*The Willis Smith Prize.* Mr. Willis Smith, a member of the Raleigh Bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of Law School work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose.

*Julia Dale Prize in Mathematics.* This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

*The Milmoor Prize,* consisting of one year's subscription to the *Electrical World*, is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the Faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

*The Pegram Chemistry Club Prize* will be awarded in the spring of each year for scholarship in chemistry, physics and mathematics. The prize is to consist of one year junior membership in the American Chemical Society, and a one year subscription to either the *Journal of the American Chemical Society*, or to *Industrial and Engineering Chemistry*. To qualify for this prize the student must (1) be enrolled as an undergraduate of Duke University, (2) be taking or have taken a fourth year chemistry course. The winner of this prize is to be selected by a committee consisting of at least one faculty member and at least two members of the Pegram Chemistry Club; the selection is to be based on the Quality Point average for all courses taken in chemistry, physics and mathematics. In case of a tie equal awards will be given.

## STUDENT ORGANIZATIONS AND ACTIVITIES

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*The Men's Association of Duke University* comprises all men students in the University. It functions through its officers and a council to initiate policies and to oversee matters within the control of the student body. The council is composed of seven members: three from the Senior Class, two from the Junior Class, one from the Sophomore Class, and one from the Graduate School.

*The Women's Student Government Association* is similar in character to the Men's Association. Its council is composed of the officers of the association and ex officio of the Y. W. C. A. president and an undergraduate representative.

*The Young Men's Christian Association* and the *Young Women's Christian Association* are student branches of the national Christian Associations. Each body aims to enrich not only the religious life of its members as individuals but also to promote religious group activity. Delegates are sent each year to summer conferences, state conventions, inter-state conventions, and the state Bible and missionary institutes. Every year a series of special religious services is held. Bible and missionary study classes and Sunday-School teacher-training courses are conducted under the auspices of the association by members of the Department of Religion.

Other organizations and activities include the following:

Classical Club; Columbia Literary Society; Cosmopolitan Club; Crowell Scientific Society; Debate Council (Men); Debating Club (Women); Forum Club; League of Women Voters; Nereidian Club (Women); Physics Club; Polity Club; Student Volunteer Band; The Duke Players; The Explorers' Club; The French Club; The Ministerial Association; Town Girls' Club; Trinity College Historical Society; Women's Athletic Association; and the W. H. Pegram Chemistry Club.

### HONORARY ORDERS AND FRATERNITIES (NATIONAL)

Alpha Kappa Psi (Economics); Chi Delta Phi (Literary—Women); Delta Phi Alpha (German); Kappa Delta Pi (Education); Omicron Delta Kappa (Leadership); Phi Beta Kappa (Scholarship); Phi Eta Sigma (Freshman Scholarship); Phi Sigma (Biology); Pi Gamma Mu (Social Sciences); Pi Mu Epsilon (Mathematics); Sigma Pi Sigma (Physics); Sigma Upsilon (Literary—Men); Sigma Xi (Scientific Society); Tau Kappa Alpha (Forensic); Theta Alpha Phi (Dramatic); Sigma Delta Pi (Spanish).

### HONORARY ORDERS AND FRATERNITIES (LOCAL)

Beta Omega Sigma (Sophomore—Men); Delta Phi Rho Alpha (Athletic—Women); EKO-L (Scholarship—Women); 9019 (Scholarship—Men); Iota Gamma Pi (Scientific); Red Friars (Leadership—Men); Tombs (Athletic—Men); Sandals (Sophomore—Women); White Duchy (Leadership—Women).

**ENGINEERING ORGANIZATIONS AND FRATERNITIES**

American Institute of Electrical Engineering; American Society of Civil Engineering; Delta Epsilon Sigma (Honorary Engineering Fraternity); Duke Society of Mechanical Engineering; The Engineer's Club.

**MUSICAL ORGANIZATIONS AND FRATERNITIES**

Duke University Band; Kappa Kappa Psi (National Band Fraternity); Orchestra; D-men, Ambassadors; The Men's Glee Club; The Women's Glee Club; The University Chapel Choir; Symphony Orchestra; The Woman's Symphony Orchestra; The Woman's Music Study Club.

**SOCIAL FRATERNITIES (NATIONAL)****(The Men's Pan-Hellenic Council)**

Alpha Tau Omega; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Phi Sigma Delta; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Zeta Beta Tau.

**SOCIAL FRATERNITIES (LOCAL)**

Alpha Chi; Duke University Pre-Medical Society, undergraduate medical group.

**SOCIAL SORORITIES (NATIONAL)****(The Women's Pan-Hellenic Council)**

Alpha Delta Pi; Alpha Phi; Alpha Epsilon Phi; Delta Delta Delta; Kappa Alpha Theta; Kappa Delta; Kappa Kappa Gamma; Phi Mu; Pi Beta Phi; Sigma Kappa; Zeta Tau Alpha.

**THE SCHOOL OF LAW**

Order of the Coif (National Scholarship and Legal Ability Fraternity); Iredell Law Club (Local Social Club); Phi Delta Phi (National Social Fraternity); Duke Bar Association.

**THE SCHOOL OF MEDICINE****Social Fraternities (National)**

Nu Sigma Nu; Alpha Kappa Kappa; Phi Beta Pi; Phi Chi; Theta Kappa Psi; Alpha Omega Alpha (Honorary).

**STUDENT PUBLICATIONS**

*Archive* (Monthly); *Chanticleer* (Annual); *Chronicle* (Semiweekly).



THE GRADUATE SCHOOL  
OF ARTS AND SCIENCES

1937-1938

ANNOUNCEMENTS FOR 1938-1939



## GRADUATE SCHOOL CALENDAR

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1938

- June 13. Monday, 9:00 A.M.—Registration of students for Summer School, first term.
- June 13. Monday, 2:00 P.M.—Instruction begins for Summer School, first term.
- July 4. Monday—Independence Day: a holiday.
- July 22-23. Friday, Saturday—Final examinations for Summer School, first term.
- July 25. Monday, 9:00 A.M.—Registration of students for Summer School, second term.
- July 25. Monday, 2:00 P.M.—Instruction begins for Summer School, second term.
- Sept. 2-3. Friday, Saturday—Final examinations for Summer School, second term.
- Sept. 21. Wednesday, 11:00 A.M.—Formal opening of the College; registration of matriculated students.
- Sept. 22. Thursday—Instruction for Sophomores, Juniors, and Seniors begins.
- Sept. 22-24. Thursday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-4:00 P.M.; Friday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-5:00 P.M.; Saturday, 9:00 A.M.-1:00 P.M.—Registration of graduate students.
- Oct. 15. Saturday—Last day for submitting thesis subjects for the degree of Doctor of Philosophy.
- Nov. 7-12. French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 1.
- Nov. 14-19. German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 7.
- Nov. 15. Tuesday—Last day for submitting thesis subjects for the degrees of Master of Arts and Master of Education.
- Nov. 24. Thursday—Thanksgiving Day: a holiday.
- Dec. 10. Saturday—Duke University Day.
- Dec. 20. Tuesday, 1:00 P.M.—Christmas recess begins.
- 1939
- Jan. 3. Tuesday, 8:00 A.M.—Instruction is resumed.
- Jan. 10-16. Reading period.
- Jan. 17. Tuesday—Mid-year examinations begin.

- Jan. 28-31. Saturday, Monday, Tuesday—Registration for second semester.
- Feb. 1. Wednesday—Second semester begins.
- March 1. Wednesday—Last day for applying for University fellowships, graduate assistantships, and graduate scholarships.
- March 6-11. French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before March 1.
- March 13-18. German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before March 6.
- March 25. Saturday, 1:00 P.M.—Spring vacation begins.
- April 3. Monday, 8:00 A.M.—Instruction is resumed.
- April 28-May 12. Reading period.
- May 1. Monday—Last day for submitting theses for degree of Doctor of Philosophy.
- May 15. Monday—Last day for submitting theses for degrees of Master of Arts and Master of Education.
- May 19. Friday—Final examinations begin.
- June 3. Saturday—Commencement opens; Senior Class Day; meeting of the Board of Trustees.
- June 4. Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 5. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

## OFFICERS OF ADMINISTRATION

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WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., Ed.D., LL.D.  
*President*

ROBERT LEE FLOWERS, A.M., LL.D.  
*Vice-President in the Business Division*

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.  
*Vice-President in the Educational Division*

\*WILLIAM HENRY GLASSON, Ph.B., Ph.D.  
*Dean of the Graduate School of Arts and Sciences*

CALVIN BRYCE HOOVER, A.B., Ph.D.  
*Dean of the Graduate School of Arts and Sciences*

WALTER HAROLD DELAPLANE, A.B., A.M., Ph.D.  
*Assistant to the Dean of the Graduate School*

ROBERT LEE FLOWERS, A.M., LL.D.  
*Secretary and Treasurer*

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FRANK CLYDE BROWN, A.B., A.M., Ph.D.  
*Comptroller*

CHARLES BLACKWELL MARKHAM, A.B., A.M.  
*Assistant Treasurer*

JOSEPH PENN BREEDLOVE, A.B., A.M.  
*Librarian*

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## GRADUATE SCHOOL COUNCIL

WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., Ed.D., LL.D.  
*President of the University, ex officio*

WILLIAM HENRY GLASSON, Ph.B., Ph.D.  
*Dean of the Graduate School of Arts and Sciences*

PAULL FRANKLIN BAUM, A.B., A.M., Ph.D.

\*\*WILLIAM KENNETH BOYD, A.B., A.M., Ph.D.

BENNETT HARVIE BRANSCOMB, A.B., B.A., M.A., Ph.D.

WILLIAM ARTHUR BROWNELL, A.B., A.M., Ph.D.

CHARLES ABRAM ELLWOOD, Ph.B., Ph.D., LL.D.

PAUL MAGNUS GROSS, B.S., A.M., Ph.D.

GEORGE THOMAS HARGITT, Ph.B., A.M., Ph.D.

CALVIN BRYCE HOOVER, A.B., Ph.D., Litt.D.

WILLIAM THOMAS LAPRADE, A.B., Ph.D.

\*\*\*HELGE LUNDHOLM, Fil. Kand., Fil. Lic., Ph.D.

WILLIAM McDOUGALL, B.A., M.A., M.B., D.Sc., Litt.D.

WALTER McKINLEY NIELSEN, B.S., Ph.D.

ARTHUR SPERRY PEARSE, B.S., A.M., Ph.D.

WILLIAM PERLZWEIG, B.S., A.M., Ph.D.

ELBERT RUSSELL, A.B., A.M., Ph.D.

JOSEPH MILLER THOMAS, A.B., Ph.D.

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.

ALBAN GREGORY WIDGERY, B.A., M.A.

\* Resigned, June 6, 1938.

\*\* Deceased, January 19, 1938.

\*\*\* For spring semester, 1938.

# GRADUATE INSTRUCTION IN DUKE UNIVERSITY

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## GENERAL STATEMENT

Prior to 1916 there was no separate organization within Trinity College to promote and supervise graduate studies. However, there had been for many years a limited number of graduate students who completed a year of postgraduate work and received the degree of Master of Arts. The work of such students was supervised through the office of the Dean of Trinity College. Many of these graduate students went out from Trinity College to continue their studies at other colleges and universities and later achieved distinction as teachers and scholars.

In September, 1916, President Few appointed a Committee on Graduate Instruction to deal with the problems involved in the promotion and administration of graduate work. In that year there were six graduate students in the College, and seven graduates of the College were enrolled in the professional School of Law. During and immediately after the World War the number of graduate students remained small, but by the year 1923-24 the graduate enrollment had increased to thirty-five exclusive of the college graduates enrolled in the School of Law.

The growing importance of graduate work in Trinity College caused the Committee on Graduate Instruction, during the first semester of the year 1923-24, to make a careful study of requirements for admission to graduate work, of requirements for advanced degrees, and of other conditions affecting standards of graduate instruction. A comprehensive report was prepared by the Committee and adopted by the Faculty. Provision was made for the granting of two advanced degrees, Master of Arts and Master of Education. Regulations were adopted which increased the distinction between graduate and undergraduate work. A thesis requirement was made for every candidate for a graduate degree, and provision was made for the examination of theses by Faculty committees. The Committee on Graduate Instruction undertook a closer supervision of graduate courses and of the work of graduate students.

Thus, when Trinity College became Duke University in December, 1924, noteworthy progress had already been made in organizing a graduate department with advanced courses in many fields of study and with high standards. In accepting Mr. Duke's great benefaction, the Trustees definitely included a graduate school of arts and sciences as a member of the University organization.

In the academic year 1926-27 a Council on Graduate Instruction was established in the University to exercise a general supervision over graduate work in arts and sciences, and Professor William H. Glasson was appointed Dean of the Graduate School of Arts and Sciences. Professor Calvin B. Hoover succeeded him as Dean upon his resignation June 6, 1938.

## THE LIBRARY

The total number of volumes in the University Library on June 30, 1937, was 487,592 volumes. These are distributed among four main units: the General Library with 367,305 volumes; the Hospital (Medical) Library, 33,601 volumes; the Library of the Law School, 53,728 volumes; and the Woman's College Library, 32,958 volumes.

The work of students in the Graduate School is carried on primarily in the General Library. A Graduate Reading Room, which contains the reference material most in demand, provides a quiet and convenient place for study. Graduate students are also admitted freely to the stacks. Within the stacks are located 108 carrells or desks which are assigned on an annual basis, preference being given to students in the Graduate School. To facilitate work in the natural sciences the General Library maintains departmental libraries adjacent to laboratories for the Departments of Chemistry, Physics, and Biology. A departmental library is also maintained for the School of Religion.

In the field of mathematics and the sciences particular attention has been given to securing files of important journals and serials. A check-list of all scientific periodicals and serials on the University campus shows a total of approximately 2,650 files in a more or less complete form. The total number of current periodicals received by subscription, exchange, and gift in 1936-37 was 2,825, but leaving out the duplicates there were 2,796 titles received.

In the field of the social sciences and the humanities every effort has been made to secure the basic collections of source material as well as the more important publications of criticism and discussion. This has been done by the acquisition of such sets as the *Die Griechischen Christlichen Schriftsteller der ersten drei Jahrhunderte*, *Corpus Scriptorum Ecclesiasticorum Latinorum*, Migne's *Patrologia*, the *Corpus Scriptorum Historia Byzantiae*, the *Monumenta Historica Germaniae*, the *Acta Sanctorum*, the *Corpus Reformatorum*, complete files of the publications of the League of Nations, the International Labor Office, and many others. The endeavor to select the more important items in the various fields of graduate work has been supplemented by the purchase of a number of special collections and libraries. Among the more important of these might be mentioned a Peruvian library of approximately three thousand books and manuscripts; a library of several thousand volumes dealing with Brazil; the Lanson Collection of French literature consisting of twelve thousand books and monographs; a Goethe collection of one thousand volumes; a Scandinavian collection of three thousand volumes; a collection of about five thousand items of early Americana, dating from the seventeenth century to 1820; the Holl church history library dealing primarily with the period of the Reformation; a collection of many thousands of church minutes and records of American denominational history; two collections of eighteenth-century English poetry and prose totaling about five thousand items; two special collections, one dealing primarily with Byron and the other with Coleridge, containing a number of manuscripts, annotated copies, and first



editions; a transportation collection containing many thousand railroad reports and records; and the Thomas Collection of books on Chinese history and culture. Special mention should be made of the George Washington Flowers Collection of manuscripts, books, newspapers, and pamphlets dealing with all phases of Southern history.

#### PUBLIC DOCUMENTS

The importance of public documents as fundamental source materials for the social sciences and as containing also some of the most important work in the field of applied science is being clearly recognized, and an excellent start has been made toward a comprehensive collection of this material. The Library has been a depository for Federal documents since 1890. State documentary publications are also being systematically collected. Of European public documents a representative, though not extensive, collection has been secured. Among the more notable items might be mentioned the *British Calendar of State Papers*, the *Acts of the Privy Council*, *Hansard's Debates*, the *Débats Parlementaires* of the French Senate and Chamber of Deputies, the *Journal Officiel de la République Française*, the *Bulletin des Lois de la République Française*, the *Verhandlungen des Reichstages*, and the *Diario* of the Spanish *Cortes*. The public documents of the Latin-American countries form one of the strongest units of the Library.

Under this heading should be mentioned also the recent acquisition of the library of Professor Louis Strisower, sometime president of the Institut de Droit International, which contains approximately five thousand volumes dealing with international law. The volumes date from the seventeenth century to the present and contain some especially valuable periodical files and rare books.

#### PUBLICATIONS OF EUROPEAN ACADEMIES

The Duke University Library has more than twenty-five sets of European academies containing monographs in most of the fields of knowledge and constituting important sources for the research programs of graduate students and Faculty. The sets comprise about two thousand volumes and include *Preussische Akademie der Wissenschaften* (Berlin); *Gesellschaft der Wissenschaften zu Göttingen*; *Sächsische Akademie der Wissenschaften* (Leipzig); *Bayerische Akademie der Wissenschaften* (Munich); *Akademie der Wissenschaften* (Vienna); *Académie des sciences* (Paris); *Académie des inscriptions et belles-lettres* (Paris); *Institut de France* (Paris); *Académie des sciences morales et politiques* (Paris); *Accademia gioenia di scienze naturali* (Catania); *Accademia virgiliana de scienze, lettere ed arti* di Mantova; *Accademia de scienze morali e politiche* (Naples); *Accademia dei lincei* (Rome); *Accademia nazionale dei lincei*; *Accademia d'Italia* (Rome); *Accademia pontificia dei nuova lincci* (Rome); *Academia de ciencias y artes* (Barcelona); *Academia de ciencias, bellas letras y nobles artes de Córdoba*; *Real academia española*; *Academia de la historia* (Madrid); *Academia das ciencias de Lisboa*; *Akademia nauk* (Leningrad); *Akademia nauk* (Mos-



cow); *Norske videnskaps-akademi i Oslo*; *Akademie van Wetenschappen* (Amsterdam); *Académie royale des sciences, des lettres et des beaux-arts de Belgique* (Brussels); *Akademija umiejtnosci* (Krakow).

#### NEWSPAPERS

The Library collection of newspapers contains around eleven thousand volumes. Practically all states of the Union are represented, although the major part of the collection is from along the Atlantic seaboard. Of the eighteenth-century items, the states best represented are Massachusetts, Maryland, New York, Rhode Island, Virginia, North Carolina, South Carolina, and Georgia. There is an excellent collection of nineteenth-century New England papers. There are especially long runs of the *New York Herald*, *New York Times*, *New York Tribune*, and the *London Times*. The World War period is unusually strong with about twenty-eight titles practically complete for 1914-19. There is a group of papers from Germany in the years just after the World War. Special emphasis has been placed on the Southern states, and there are numerous volumes of papers from North Carolina, South Carolina, and Virginia, representing the Colonial period, the Ante-Bellum period, and the Civil War period. The current subscription list of more than fifty titles represents American public opinion and contains about twenty important foreign titles.

#### MANUSCRIPTS

The manuscript collection now contains approximately half a million pieces. Outstanding items include one notable Greek manuscript of the thirteenth century containing the entire New Testament. In the field of English literature there is an interesting body of Rossetti material. For the most part, however, the collection relates to the South Atlantic region. The field of American literature is represented by the papers of Paul Hamilton Hayne, Thomas Holley Chivers, William Gilmore Simms, John Esten Cooke, George Frederick Holmes, and Thomas Nelson Page. Material is most copious in the field of history, where the papers of both well-known and minor figures provide a well-rounded picture of life in the South during the nineteenth century. Aside from politics, information can be found on all phases of social and economic life. Particular attention is given to the period of the Civil War, with the result that the collection is rich in material on civic and social as well as military phases of that conflict. Of interest for historical studies are the papers of P. G. T. Beauregard, John C. Calhoun, John J. Crittenden, John Clopton, William H. Crawford, Jefferson Davis, James Mercer Garnett, Nathaniel Greene, Louis M. Goldsborough, David B. Harris, William W. Holden, T. J. (Stonewall) Jackson, John M. Kell, Robert E. Lee, Francis R. Lassiter, George McDuffie, A. T. Mahan, Willie P. Mangum, Mathew Fontaine Maury, Francis W. Pickens, Richard Singleton, and Alexander H. Stephens. The manuscript collection is increasing at the rate of about fifty thousand items annually.

### EXCHANGE PRIVILEGES WITH THE LIBRARY OF THE UNIVERSITY OF NORTH CAROLINA

The libraries of Duke University and of the University of North Carolina have completed arrangements for the fullest exchange of privileges and resources. Each library contains a catalogue of the contents of the other, and books requested from the other library are supplied through a delivery service which operates daily except Saturdays and Sundays. Faculty members and graduate students may secure cards admitting them to the stacks of the other library. The Library of the University of North Carolina contains approximately 344,000 volumes, besides a large collection of manuscripts relating to Southern history. Through this arrangement more than 831,000 volumes are available to students in the combined libraries.

### NEW SCIENCE LABORATORIES

New laboratory buildings were erected in 1930 on the West Campus for biology, physics, and chemistry. Graduate students will find available the most modern equipment and facilities for research. In addition to the provision of modern apparatus, large sums have recently been expended to purchase important additions to the collections of scientific periodicals and publications in the departmental libraries, the University Library, and the Hospital Library.

In the School of Medicine elaborate facilities are provided for post-graduate research in the various branches of medical science. Especial attention will be given to training in preventive medicine and public health work.

### BIOLOGICAL LABORATORIES

The Biology Building on the West Campus contains three refrigerated rooms, an incineration room, a workshop, an aquarium room, five animal rooms connected with outside yards, and eight dark rooms. Special laboratories are provided for advanced work in plant and animal physiology, parasitology, cytology, taxonomy, bacteriology, ecology, histology, mycology, anatomy, embryology, endocrinology, entomology, and forestry. A greenhouse gives adequate space for experimental work and propagation. There is an herbarium of some fifty thousand specimens of all plant groups with a large representation of the Southern flora. Dr. H. J. Oosting is Curator of the Herbarium and Dr. Irving E. Gray is the Curator of the Biological Museum. On the East Campus, laboratories are provided for women, and there is a small greenhouse near the Science Building. Laboratories and rooms for students doing research are equipped with vacuum, compressed air, direct and alternating current, gas, and running water. Proper equipment and supplies for biological work, such as microscopes, ovens, baths, nets, kymographs, motors, chemicals, and glassware are available.

The Duke University Forest and the streams of the University estate furnish excellent collecting grounds. The woodlands are under the management of the School of Forestry. Duke University is situated in the

Piedmont region, between the mountains and the coastal plains. This gives easy access to a variety of plants and animals. North Carolina is the home of the tulip poplar, holly, rhododendron, mountain laurel, flowering dogwood, several species of insect-catching plants, cypress, and other interesting plants. Among the animals are a varied assortment which range from marine to montaine species. In the woods about the University are opossums, squirrels, cardinals, Carolina wrens, several species of salamanders, king snakes, and terrapins.

The Marine Laboratory at Beaufort, N. C., provides facilities for work on plants and animals in and near the ocean. It is situated on Piver's Island, adjacent to the Biological Laboratory of the United States Bureau of Fisheries.

### CHEMISTRY LABORATORIES

Graduate work in chemistry is carried on in a new building which has a floor area of about 57,000 square feet. The equipment of this building is modern in every respect. Of this total space a large proportion is available for research and advanced teaching. There are twenty-five double research rooms completely equipped with the usual services. In addition, the following specially designed rooms are available for present or future research as indicated: a low temperature room, photographic room, constant temperature room, gas analysis room, combustion room, bomb room, animal room, and rooms equipped for high vacuum, X-ray, and photochemical investigations.

A glass-blowing room and a well-equipped shop, operated by a competent mechanic, provide facilities for the construction of special apparatus and for the repair and maintenance of instruments.

### PHYSICAL LABORATORIES

The physical laboratory contains approximately an acre of floor space which is devoted to instruction and research. In addition to the usual lecture and elementary laboratory facilities, laboratories are provided for work in electrical measurements, optics, atomic physics, and advanced measurements in general physics.

There are sixteen research rooms equipped with various storage battery connections as well as water, gas, and compressed air. In some rooms connections can be made to a 35 kw. 110 v. D.C. generator.

In addition, rooms are provided for various instruments of research in spectroscopy such as a 10-foot Rowland Concave grating, 21-foot grating in a Paschen mount as well as microphotometer and dark rooms. Facilities are also provided for investigation in the fields of magnetism, collision problems, mass spectroscopy, and nuclear physics.

A well-equipped shop operated by a trained instrument-maker makes possible the development of instructional and research apparatus. A shop is also provided for the use of the Staff and graduate students.

### THE DUKE FOREST

Through placing the Duke Forest under intensive management for forestry purposes, substantial progress has been made in developing the educational work and research in forestry. The Duke Forest consists of approximately forty-nine hundred acres of land, most of which is adjacent and easily accessible to the University campus. Situated in the lower Piedmont region, composed of second-growth shortleaf pine, loblolly pine, and hardwoods, the Forest is representative of the various types of timber growth and soils found throughout the region.

On account of the proximity of the Forest to the laboratories, green-houses, and library facilities of the University, an excellent opportunity exists for advanced study and research in forestry. Research, particularly in the fields of silvics, forest soils, silviculture, forest management, properties of wood, forest-tree physiology, and forest pathology, is well under way. Several members of the Botany and Zoology Staffs are also engaged on research in the Duke Forest.

For additional information, see the *Bulletin of the School of Forestry*.

### GRADUATE DORMITORIES

Certain sections of the new dormitories on the West Campus have been reserved for graduate men. Board can be secured at the Union, which also has unusually attractive provisions for social intercourse and activities. Graduate women will find dormitory accommodations of the highest type on the East Campus. The Union on the East Campus furnishes meals at reasonable rates and serves as a center of campus life.

### FELLOWSHIPS AND SCHOLARSHIPS

For the assistance and encouragement of graduate students of high character and marked ability, the University has established a considerable number of fellowships and scholarships. Holders of fellowships and scholarships will be expected to pay the tuition fee and such additional fees as are regularly required. Applications for these appointments should be made on or before March 1 of each year, beginning in 1939. In case vacancies occur, applications submitted on a later date will be considered. Appointments which were offered for the year 1938-39 are listed below.

#### FELLOWSHIPS

One Angier Duke Memorial Fellowship of one thousand dollars.  
Four University Fellowships of seven hundred and fifty dollars each.  
Ten University Fellowships of seven hundred dollars each.  
Sixteen University Fellowships of six hundred and fifty dollars each.  
One Gurney Harriss Kearns Fellowship in American Religious Thought of seven hundred dollars.

In appointing fellows, preference is usually given to applicants who have completed at least one year of successful graduate work. Fellows will be required to give a limited amount of assistance in reading papers,



in laboratories, or in other departmental duties. All fellows carry a full program of graduate work.

#### **GRADUATE SCHOLARSHIPS**

Seven Graduate Scholarships of four hundred and fifty dollars each.

Twelve Graduate Scholarships of four hundred dollars each.

Scholars may be asked to give a limited amount of assistance in departmental work. They normally carry a full program of graduate studies.

#### **FELLOWSHIPS AND GRADUATE SCHOLARSHIPS IN FORESTRY**

Information regarding special fellowships and graduate scholarships in forestry may be obtained before March 1, 1939, from the Dean of the School of Forestry, Duke University, Durham, N. C.

#### **BROOKINGS-DUKE CO-OPERATIVE FELLOWSHIPS**

Duke University and the Brookings Institution of Washington, D. C., have entered into a co-operative arrangement for the establishment of fellowships in economics and political science. Each fellowship will be of the approximate annual value of one thousand dollars. The fellowships will be available to third-year or more advanced graduate students, who have either completed the work for the Ph.D. degree, or who wish to do thesis work in Washington. In carrying on their work, students will use the facilities of the Brookings Institution. In most cases unmarried persons will be nominated for these appointments. Further details can be obtained from the Dean of the Graduate School, Duke University, or from the Brookings Institution, Washington, D. C. Graduate students who desire to be nominated by Duke should apply to the departments concerned not later than March 1. Nominations are transmitted to the Brookings Institution by March 15.

#### **APPOINTMENTS AS GRADUATE ASSISTANTS**

A considerable number of appointments as teaching assistants or readers will be available for graduate students. The compensation will usually range from \$300 to \$700, depending upon the nature and amount of the work assigned. Assistants receiving \$500 or more will be registered for four-fifths of a normal program of studies.

Information regarding fellowships, graduate scholarships, and graduate assistantships, together with application blanks, may be obtained from the Dean of the Graduate School, Duke University, Durham, North Carolina.

#### **ENCOURAGEMENT OF RESEARCH**

The President of the University appoints annually a University Council on Research. The twelve members of this Council are chosen from the Faculties of the Schools of Medicine, Law, Religion, and the Graduate School of Arts and Sciences. In May of each year the Council on Research receives written applications from members of the Faculty for

subsidies to be used in the following fiscal year to aid them in carrying out research projects. Stipends are granted for the employment of research assistants, for the purchase of books and for apparatus, supplies, and equipment. Each member of the Faculty to whom a research stipend is granted must make a written report within twelve months to the Council concerning the progress of the investigation for which the stipend was allowed.

### SPECIAL LECTURES

During each academic year the University Lecture Committee arranges for a number of special lectures of value to graduate students interested in various fields of knowledge. Among the lecturers for the academic year 1937-38 were Professor J. B. Rhine on "Extra-Sensory Perception"; Judge Manley O. Hudson, of the Permanent Court of International Justice, on the "World Court"; Professor William L. Langer, of Harvard University, on "Balance of Power in Europe"; and Dr. Robert Cushman Murphy, of the American Museum of Natural History. Other distinguished lecturers appeared in 1937-38 on the Woman's College Lecture Series and on the programs of various schools and departments of the University.

### UNIVERSITY PRESS

As far back as 1897 Trinity College began sponsoring the publication of the *Papers of the Trinity College Historical Society*, which were distributed to members of the Society and on exchange with other institutions. This was the first publishing venture of the College.

In 1902, the 9019, an honor scholastic society on the campus, sponsored the launching of *The South Atlantic Quarterly*, which was later taken over by the Press.

In 1925 after the acceptance of the indenture of trust of James B. Duke, Trinity College became Duke University, and the following year the University Press was organized to publish the results of research engaged in by the Faculty and such other works as were approved by a board of editors appointed for the purpose. One of the first steps of the new organization was to revive *The Hispanic American Historical Review*, which had been founded and published from 1918 to 1922 by a group of scholars interested in Hispanic America. Since 1926 its publication has been continued without interruption and its mission has been supplemented by the publication of many studies dealing with the history, politics, and foreign relations of the Hispanic nations of the New World.

In 1929 *American Literature* was begun with the co-operation of the American Literature Group of the Modern Language Association. This was followed in 1931 by *Ecological Monographs*, a quarterly sponsored by the Ecological Society of America to take care of papers too long for inclusion in *Ecology*.

*Character and Personality* was organized in 1932 to offer a medium for the publication of studies in fields related to this phase of psychology. It is an international quarterly which appears simultaneously in the United



States and Great Britain. A German edition formerly published in Germany has been forced to suspend publication.

Besides these regular quarterly publications the Press has issued *Duke University Psychological Monographs*, the title of which has recently (1936) been changed to *Contributions to Psychological Theory*, and *Duke University Research Studies in Education* sponsored by the Department of Education of the University.

More recently (1935) the Press started the publication of the *Duke Mathematical Journal*, with the co-operation of the Mathematical Association of America, and *The Journal of Parapsychology* (1937) for the publication of the results of research in psychoanalysis, mental telepathy, and allied studies. For the Southern Association of Colleges and Secondary Schools, the Press publishes *The Southern Association Quarterly*, official organ of the Association. The Law School issues another quarterly, *Law and Contemporary Problems*, carrying a symposium of some important legal problem in each number.

Previous to the existence of the Press, Duke University, formerly Trinity College, had published several important books under its own imprint. Since the organization of the Press it has continued to offer to the public the products of able scholarly research. It has not limited its scope to any one field or to any one group of authors. In addition to the many works submitted by members of the Faculty, a great number of manuscripts by authors who had no connection with the University have been issued under the imprint of the Press.

In the broadest sense, it is the policy of the Press to give to the public any work which, because of the merit of its contents, its style, and its general value, deserves publication.

## REQUIREMENTS FOR ADMISSION AND DEGREES

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(For regulations concerning admission to graduate courses and to candidacy for a degree, see *Bulletin of the Graduate School*.)

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), and Doctor of Philosophy (Ph.D.).

### THE DEGREE OF MASTER OF ARTS

*Language requirements:* Candidates for the degree of Master of Arts are required to have a reading knowledge of two foreign languages, evidenced by examination or by credit obtained for at least six semester-hours of college work in each. If this requirement has not been satisfied before admission to candidacy for the degree, the required foreign language work must be completed before the degree is conferred and will not be counted for credit toward the degree. The two foreign languages offered must be acceptable to the department in which the candidate is taking his major work. Twice a year at stated times the language examinations will occur. The French examinations will be given the first week in November and the first week in March, while the German examinations will be given the second week in November and the second week in March. Students should register in advance at the Graduate Office for these examinations.

*Major and minor subjects:* Before selecting his major in a department, a student must have completed a minimum of twelve semester-hours of approved *preliminary* courses in that department and twelve additional semester-hours either in that department or in related work. Many departments require eighteen semester-hours of undergraduate credit. The student therefore should read carefully the special requirements listed by each department.

To obtain the degree of Master of Arts a candidate must complete satisfactorily twenty-four semester-hours of graduate courses and a thesis. The credit for the thesis is six semester-hours. Each candidate for the degree must select a major subject in which the minimum requirement is twelve semester-hours and the thesis. A candidate must take six semester-hours of graduate work in a minor outside of but approved by the major department, and the remaining six semester-hours in the major or minor fields or in a department approved by the major department and by the Graduate Council. No undergraduate course may be credited toward the degree of Master of Arts.

### MINIMUM RESIDENCE REQUIREMENT

The minimum residence requirement of candidates for the Master's degree is one academic year. Often a longer period of residence will prove necessary. In the case of graduate students who take all the work for the Master's degree in the Summer School, the minimum residence requirement is thirty-three weeks. All the work offered for the Master's degree, whether in the regular academic year or in summer sessions, must be completed within a period of six years from the date of beginning.

### DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is granted to teachers, or others, engaged in educational service, upon completion of the prescribed program of study. Candidates for the degree must have had two years of practical experience in teaching when the degree is conferred. This experience may be obtained in the two years immediately prior to entering upon candidacy for the degree, or it may be obtained concurrently with the period of study for the degree.

A preliminary requirement for admission to candidacy for this degree is the completion of a minimum of eighteen semester-hours of approved undergraduate work in education, including work in educational psychology and work in history of education, or educational sociology, or school administration.

The requirements for the degree of Master of Education are twenty-four semester-hours of graduate courses and a thesis. Candidates must take a minimum of twelve semester-hours of work and write a thesis in the Department of Education. At least six semester-hours must be taken in some department other than the Department of Education. Students who are preparing to teach are advised strongly to take twelve semester-hours of graduate work in the subjects they intend to teach. In such cases the thesis may be prepared under the joint supervision of a department in which the student intends to teach and the Department of Education.

The residence requirements for the degree of Master of Education are the same as those for the degree of Master of Arts.

#### **THESIS FOR THE MASTER'S DEGREE**

The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts or Master of Education must be approved by the department or departments concerned and filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred.

Three (or, at the discretion of the department, four) bound typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 15 of the year in which the degree is conferred. The thesis is passed upon and accepted or rejected by an examining committee of three members of the Faculty. Two of the copies, the original and a carbon copy, are placed in the University Library. Each candidate is required to appear before the committee for a final examination. The oral portion of the examination will be approximately one and one-half hours in length and will be on the thesis and its related field.

#### **SUMMER SCHOOL WORK FOR THE MASTER'S DEGREE**

Graduate students may not receive more than six semester-hours of credit for work taken in one summer session of six weeks. All the work offered for the Master's degree, either in the regular academic year or in summer sessions, must be completed within a period of six years from the date of beginning. Work completed earlier will count neither for course credit nor residence credit. Candidates who present for the Master's degree more than fifteen semester-hours taken in summer sessions will be obliged to meet the additional Summer School requirements for the degree.

#### **CREDIT TOWARD THE MASTER'S DEGREE FOR WORK DONE ELSEWHERE**

No credit toward advanced degrees is given for university extension or correspondence courses.

Not more than six semester-hours of credit toward the Master's degree may be given to graduates of Duke University or of other approved colleges or universities for acceptable graduate courses or research work completed elsewhere. Such credit shall not shorten the minimum period of full-time residence work required at Duke University. It may, however, be used to give opportunity to take six semester-hours of a required language course or to take as much as six semester-hours of required undergraduate training.

#### **THE DEGREE OF DOCTOR OF PHILOSOPHY**

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult, or enter into correspondence with, the Dean of the Graduate School or the head of the department

concerned. He will then be advised as to the possibility of securing the necessary instructions and supervision of research in the desired field.

The Graduate School Council has adopted the following regulations governing the conferring of the degree of Doctor of Philosophy:

1. The Degree. The degree of Doctor of Philosophy is a research degree; it is not based merely upon the completion of a prescribed period of study or upon the obtaining of credit for a given number of courses. The granting of the degree will be based primarily upon evidence of high attainments in a special field of knowledge and upon the production of a thesis embodying the results of original research.

2. Residence Requirements. The normal period of resident graduate study, after the general requirements for admission to the Graduate School have been satisfied, is not less than three academic years. The candidate will be required to spend at least either the last year in actual residence at Duke University, or the first two years. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may expect to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake. Credit for one year of work done in summer school sessions may be given with the approval of the Graduate Council and the department in which the student takes his major work. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

3. Application for Candidacy for the Ph.D. Degree. A student desiring to become a candidate for the Ph.D. degree is ordinarily required to file with the Dean of the Graduate School, not later than the beginning of the second year of graduate work, a formal application indicating in what department and under what professor he proposes to carry on research. A committee will then be appointed to supervise the student's work, with the professor in charge of his research as chairman. If and when the committee finds that the preliminary requirements of the major department have been satisfied, the chairman of the committee shall report the fact in writing to the Dean of the Graduate School. The student's program of study will be arranged after consultation with this committee and must secure its approval and that of the Graduate Council. In the case of students who come to Duke University for only the last year of graduate work, and in special cases approved by the Graduate Council, the application for recognition as a candidate for the Ph.D. degree may be filed later than provided above, but not later than October 15 of the academic year in which it is desired that the degree be conferred.

4. Preliminary Examination. Toward the end of the second full year of graduate work (or in special cases early in the third year), a preliminary examination of each candidate will ordinarily be held covering the general field of his studies. This examination will be conducted by the committee in charge of the student's work and will be either oral or written, or both as the committee may determine. A student who passes this examination will be recognized as a candidate for the Ph.D. degree. The examination on his minor subject or subjects will ordinarily be held at the time of his preliminary examination.

5. Program of Study. The program of study of an applicant for the Ph.D. degree is subject to the approval of the Graduate Council and of the committee provided for in Section 3 above. The student must select a major field and one or two minor related fields. When a department offers instruction in a sufficient variety of subjects and the needs of the individual student seems to require it, the Graduate Council may permit a major and minor to be taken in the same departments.

6. Foreign Language Requirements. A reading knowledge of French and German will be required. The student will be examined on one of the foreign languages at the beginning of his second year of graduate work, and should



qualify in both by the end of the second year of his graduate work. No person can come up for his preliminary examination without having satisfied the language requirements for the Doctor's degree. The department in which he takes his major work may indicate preference as to the language in which the student shall first be examined. Foreign language examinations will be conducted by the appropriate language department in conjunction with the department in which the student has his major field of work.<sup>1</sup>

7. Thesis. The thesis for the Ph.D. degree must be a contribution to knowledge. The subject of the thesis must be filed with the Dean of the Graduate School on or before October 15 of the academic year in which the candidate desires to take the final examinations for his degree. The subject must receive the written approval of the head or chairman of the department in which the candidate has his major field of work and also of the professor under whom the thesis is being written. The thesis must be completed to the satisfaction of the professor under whom it is written, and four type-written copies in approved form must be deposited with the Dean of the Graduate School on or before May 1, if the student desires to be examined on the thesis in the same academic year. Two of the copies, the original and a carbon copy, are placed in the University Library.

The title-page must be approved by the major department and by the Dean of the Graduate School.

The candidate's thesis must be published either in its original form or a modified form approved by the Dean of the Graduate School and the committee in charge of the candidate's work. Copies of the published thesis should be deposited in the Graduate School office as provided by regulations of the Graduate Council. The degree will not be conferred until publication of the thesis, in approved form, within three years, has been guaranteed in a way satisfactory to the Dean of the Graduate School and the professor under whom the thesis was written.

8. Final Examination. The final examination on the thesis and on the related subject-matter in the major or the minor fields will be oral.

### THE TRAINING OF COLLEGE TEACHERS

Colleges and preparatory schools are constantly calling upon the university graduate schools for efficient teachers. The Duke University Graduate School will endeavor to discover among the candidates for advanced degrees in the various departments those students who show promise of becoming good teachers. Provision will be made for the consideration and discussion of problems of teaching. Graduate students who expect to teach will be given opportunity to gain practical experience under the supervision of successful teachers. The Graduate School will keep such records as will enable it to recommend with confidence students who are likely to prove efficient as teachers. An appointment bureau is maintained by the University, the services of which are extended to all graduate students.

<sup>1</sup> See University Calendar.

## COURSES OF INSTRUCTION

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*(This is a condensed description of courses. For a full description, see Bulletin of the Graduate School.)*

*(Certain undergraduate courses are open to graduate students with the approval of the department. See the Bulletin of Undergraduate Instruction.)*

### DIVISION OF ANCIENT LANGUAGES AND LITERATURES

PROFESSOR BRANSCOMB, CHAIRMAN; PROFESSORS PEPPLER, ROGERS, AND  
ROSBOROUGH; ASSISTANT PROFESSORS CLARK, GATES,  
STINESPRING, AND WAY

#### GREEK

FOR SENIORS AND GRADUATES

201-202. Greek Tragedy.—6 s.h. PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY

203-204. Homer.—*Odyssey*. Pindar and Bacchylides. 6 s.h.  
PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY

205-206. Greek Historians.—6 s.h. PROFESSOR PEPPLER

207-208. Greek Orators.—6 s.h. ASSISTANT PROFESSOR WAY

209-210. Plato.—6 s.h. ASSISTANT PROFESSOR WAY

211-212. Aristophanes.—6 s.h. PROFESSOR PEPPLER  
(Only one of the six courses listed above is offered each year.)

243. Athenian Topography.—3 s.h. ASSISTANT PROFESSOR WAY

244. Greek Epigraphy.—3 s.h. ASSISTANT PROFESSOR WAY

245. Greek Dialects.—3 s.h. ASSISTANT PROFESSOR WAY

246. Greek Historical Inscriptions.—3 s.h. ASSISTANT PROFESSOR WAY

247-248. Greek Archaeology.—3 s.h. ASSISTANT PROFESSOR WAY

(Of the courses numbered from 243 to 248, only two semester-courses are offered each year.)

Topography of Athens, Olympia, and Delphi.  
PROFESSOR HARLAND (U. N. C.)

The Aegean Civilization.  
PROFESSOR HARLAND (U. N. C.)

FOR GRADUATES

The more advanced work of the graduate department is done in the seminar. One author or group of authors forms the center of study each year. Seminars are offered in Aristophanes (course 301-302), the Greek Historians (303-304), the Attic Orators (305-306), and the Greek Tragic Poets (307-308). These run through a cycle of four years. In 1938-39 the work will be:

307-308. Seminar in the Greek Tragic Poets.—6 s.h. PROFESSOR PEPPLER

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### RELATED COURSES IN OTHER DEPARTMENTS

Phil. 217. Philosophy of Aristotle.—3 s.h. DR. McLARTY



**N.T. 218. Galatians and I Corinthians.—3 s.h.**

PROFESSOR BRANSCOMB OR ASSISTANT PROFESSOR CLARK

**N.T. 315. Hellenistic Religions at the Beginning of the Christian Era.—3 s.h.**

ASSISTANT PROFESSOR CLARK

**N.T. 318. The Text of the New Testament.—3 s.h.**

ASSISTANT PROFESSOR CLARK

By a co-operative arrangement graduate students of Duke University may take the following courses at the University of North Carolina, in addition to those marked (U. N. C.) above, with the approval of the Dean of the Graduate School and the Head of the Greek Department at Duke:

Homer: Advanced Course. PROFESSOR HARLAND OR PROFESSOR BERNARD

Greek Drama: Advanced Course.

PROFESSOR BERNARD OR PROFESSOR SANDERS

The Greek New Testament.

PROFESSOR BERNARD

Greek History: Thucydides.

PROFESSOR HARLAND

Syntax of the Greek Language from Homer to the New Testament.

PROFESSOR BERNARD

Hellenic Literature and Its Historical Setting.

PROFESSOR HARLAND

Greek Seminar.

PROFESSORS BERNARD, HARLAND, AND SANDERS

Archaeology of the Ancient Near East.

PROFESSOR HARLAND

Hellenic Architecture.

PROFESSOR HARLAND

Hellenic Sculpture.

PROFESSOR HARLAND

Greek Epigraphy.

PROFESSOR HARLAND

*Graduate students of Duke University may attend the American School of Classical Studies in Athens, Greece, without charge for tuition, and they are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.*

**LATIN AND ROMAN STUDIES**

All candidates for the Master of Arts degree are required to complete one Latin seminar of six semester-hours, and candidates for the doctorate are required to complete not less than two Latin seminars—twelve semester-hours—for a Latin major. At present Greek, French, Philosophy, English, and History are the most suitable subjects for the minor for students who desire a non-Latin minor. A satisfactory working knowledge of both German and French is a necessity for graduate students in Classics, and Italian is desirable.

**FOR SENIORS AND GRADUATES****201. Roman Fiction.**

[Not offered in 1938-39]

**202. Latin Christian Writers.**

[Not offered in 1938-39]

**203-204. Roman Epic Poetry.**

[Not offered in 1938-39]

**205-206. Roman Drama.—6 s.h.**

ASSISTANT PROFESSOR GATES

207-208. Roman Philosophy.—6 s.h. PROFESSOR ROSBOROUGH

209-210. Vulgar Latin: Introduction to Romance Philology.  
[Not offered in 1938-39]

215. Introduction to Roman Art and Archaeology.  
[Not offered in 1938-39]

216. Topography and Monuments of Ancient Rome.—3 s.h.  
PROFESSOR ROSBOROUGH

251-252. Roman Life.  
[Not offered in 1938-39]

281-282. Roman Historical Literature.—6 s.h.  
PROFESSORS ROSBOROUGH AND ROGERS

#### FOR GRADUATES

311-312. Latin Epigraphy.—6 s.h. PROFESSOR ROSBOROUGH

Latin Palaeography. PROFESSOR HARRER (U. N. C.)

375-376. Greek and Latin Linguistics.  
[Not offered in 1938-39]

**Seminars:** Various authors are selected from year to year as a basis for training in criticism and research. Seminars are offered in the following: *Plautus* (321-322), *Catullus* (301-302), *Roman Historians* (331-332), *Cicero* (391-392), *Martial* (351-352), *Horace* (361-362), and *Roman Provincial Administration* (341-342). The seminar planned for 1938-39 is:

341-342. Roman Provincial Administration.—6 s.h. PROFESSOR ROGERS

The following courses given at the University of North Carolina are open to graduate students of Duke University under a co-operative arrangement, with the approval of the Dean of the Graduate School and the Head of the Department of Latin and Roman Studies:

Prose Writings of the Republic.	PROFESSOR SANDERS
Roman Historical Literature.	PROFESSOR HARRER
Introduction to Comparative Philology.	PROFESSOR LANE
Roman Dramatic Literature.	PROFESSOR HARRER
Cicero: Political Career and Works.	PROFESSOR HARRER
Latin Epigraphy.	PROFESSOR HARRER
The Satires of Juvenal.	PROFESSOR SANDERS
Mediaeval Latin.	PROFESSOR JOHNSON
Latin Seminar.	PROFESSORS HARRER, JOHNSON, SANDERS

#### SANSKRIT

##### FOR SENIORS AND GRADUATES

Elementary Sanskrit PROFESSOR LANE (U. N. C.)

#### SEMITICS

##### FOR SENIORS AND GRADUATES

O.T. 201-202. Elementary Hebrew.— 6 s.h.  
ASSISTANT PROFESSOR STINESPRING

O.T. 307-308. Advanced Hebrew.— 6 s.h.

ASSISTANT PROFESSOR STINESPRING

O.T. 309. History of the Ancient Near East.—3 s.h.

ASSISTANT PROFESSOR STINESPRING

N.T. 316. Judaism at the Beginning of the Christian Era.—3 s.h.

[Not offered in 1938-39]

PROFESSOR BRANSCOMB

Elementary Arabic.—No prerequisite, but one year of Hebrew recommended as preparation.

[Not offered in 1938-39]

ASSISTANT PROFESSOR STINESPRING

## BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN; PROFESSOR WOLF, DIRECTOR OF GRADUATE STUDIES; ASSOCIATE PROFESSOR HARRAR; ASSISTANT PROFESSORS ADDOMS,\* KRAMER, AND OOSTING; DRS. ANDERSON AND PERRY

### FOR SENIORS AND GRADUATES

202. Genetics.—Prerequisites: one year of botany, zoology, or equivalent, and college algebra. 4 s.h.

DR. PERRY

203. Plant Cytology.—Prerequisite: two years of botany. 4 s.h.

DR. ANDERSON

204. Advanced Plant Anatomy.—Prerequisite: Botany 55 or equivalent. 4 s.h.

ASSISTANT PROFESSOR ADDOMS

216. Botanical Microtechnique.—Prerequisite: three semesters of botany. 4 s.h.

DR. ANDERSON

221. Structure and Classification of Fungi.—Prerequisite: two years of botany. 4 s.h.

PROFESSOR WOLF

225-226. Special Problems.—Credits to be arranged.

(a) Bacteriology, Mycology, and Plant Pathology.

PROFESSOR WOLF

(b) Cytology.

DR. ANDERSON

(c) Ecology.

ASSISTANT PROFESSOR OOSTING

(d) Genetics.

DR. PERRY

(e) Morphology and Anatomy of Higher Groups.

ASSOCIATE PROFESSOR HARRAR, ASSISTANT PROFESSORS ADDOMS AND OOSTING

(f) Morphology and Taxonomy of Lower Groups.

PROFESSOR BLOMQUIST AND DR. ANDERSON

(g) Physiology.

ASSISTANT PROFESSOR KRAMER

(h) Plant Microchemistry.

ASSISTANT PROFESSOR ADDOMS

(i) Taxonomy of Higher Groups.

PROFESSOR BLOMQUIST

252. Advanced Plant Physiology.—Prerequisite: Botany 151 or equivalent; organic chemistry recommended. 4 s.h.

ASSISTANT PROFESSOR KRAMER

255. Advanced Taxonomy.—Prerequisite: two years of botany, including Botany 52 or equivalent. 4 s.h.

PROFESSOR BLOMQUIST

256. Field Ecology.—Prerequisites: Botany 1, 2, and 52, or equivalent. 4 s.h.

ASSISTANT PROFESSOR OOSTING

\* Absent on leave, second semester, 1938-1939.

## FOR GRADUATES

305. **Plant Geography.**—Prerequisite: Botany 156 or equivalent. 4 s.h.  
ASSISTANT PROFESSOR OOSTING
310. **Structure and Classification of Bryophytes and Pteridophytes.**—Prerequisite: two years of botany. 4 s.h.  
PROFESSOR BLOMQUIST
311. **Structure and Classification of Algae.**—Prerequisite: two years of botany. 4 s.h.  
PROFESSOR BLOMQUIST
341. **Methods in Plant Physiology.**—4 s.h.  
ASSISTANT PROFESSOR KRAMER
342. **Plant Microchemistry.**—2 s.h.  
ASSISTANT PROFESSOR ADDOMS
- 359-360. **Research in Botany.**—Credits to be arranged. STAFF
- 397-398. **General Botanical Seminar.**—1 s.h. each semester. STAFF

## FOREST BOTANY

## FOR SENIORS AND GRADUATES

224. **Forest Pathology.**—Prerequisites: Botany 1, 2. 4 s.h.  
PROFESSOR WOLF
253. **Dendrology.**—Prerequisite: two years of botany. 4 s.h.  
ASSOCIATE PROFESSOR HARRAR

## RELATED COURSES IN OTHER DEPARTMENTS

These related courses may be counted toward a major in Botany.

- Zoology 341. **Historical and Philosophical Zoology.**—2 s.h.  
PROFESSOR HARGITT
- Forestry 257. **Design of Forestry Experiments and Analysis of Data.**—5 s.h.  
PROFESSOR SCHUMACHER

## CHEMISTRY

PROFESSOR GROSS, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS VOSBURGH AND WILSON; ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR; VISITING LECTURER DR. LONDON; DRs. BROWN, HILL AND HOBBS

## FOR SENIORS AND GRADUATES

- 215-216. **Advanced Inorganic Chemistry.**—Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214 and ability to read German are desirable. 6 s.h.  
PROFESSOR VOSBURGH AND DR. HILL
231. **Instrumental Analysis.**—Prerequisite: Chemistry 70. Laboratory physics is desirable. 3 s.h.  
PROFESSOR VOSBURGH, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS  
[Not offered in 1938-39]
232. **Advanced Quantitative Analysis.**—Prerequisites: Chemistry 70 and 151-152. 3 s.h.  
PROFESSOR VOSBURGH, ASSOCIATE PROFESSOR BIGELOW, ASSISTANT PROFESSOR SAYLOR AND DR. HOBBS  
[Not offered in 1938-39]
241. **Physiological Chemistry.**—Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. 4 s.h. PROFESSOR WILSON
242. **Metabolism.**—Two lectures, credit 2 s.h., and 6 laboratory hours, credit 2 s.h. 4 s.h.  
PROFESSOR WILSON

**253-254. Advanced Organic Chemistry.**—Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. 8 s.h.

ASSOCIATE PROFESSOR BIGELOW, ASSISTANT PROFESSOR HAUSER, AND DR. BROWN

**261-262. Physical Chemistry.**—Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent and Mathematics 7-8 or equivalent. Calculus is desirable but is not required. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. 6 s.h.

PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

**271. Introduction to Research.**—1 s.h.

PROFESSORS GROSS AND VOSBURGH, AND ASSOCIATE PROFESSOR BIGELOW  
[Not offered in 1938-39]

**273-274. Seminar.**—2 s.h.

PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSOR BIGELOW;  
ASSISTANT PROFESSORS HAUSER AND SAYLOR;  
DRS. BROWN, HILL AND HOBBS

**275-276. Research.**—3 or 6 s.h.

PROFESSORS GROSS, VOSBURGH, AND WILSON; ASSOCIATE PROFESSOR BIGELOW;  
ASSISTANT PROFESSORS HAUSER AND SAYLOR; DRS. BROWN, HILL, AND HOBBS

#### FOR GRADUATES

**303. Thermodynamics.**—3 s.h. PROFESSORS GROSS AND SPONER

**304. Chemical Thermodynamics.**—3 s.h. PROFESSORS GROSS AND VOSBURGH

**351-352. Advanced Synthetic Organic Chemistry.**—2 s.h.

ASSOCIATE PROFESSOR BIGELOW

**363-364. Advanced Physical Chemistry.**—Prerequisites: Chemistry 261-262 or its equivalent and calculus. 6 s.h.

PROFESSORS GROSS AND VOSBURGH; ASSISTANT PROFESSOR SAYLOR; DRS. HILL AND HOBBS  
[Not offered in 1938-39]

#### RELATED COURSES IN OTHER DEPARTMENTS

##### BIOCHEMISTRY

**M241. General Biochemistry.**—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry and at least one year of college biology. 6 s.h.

DR. PERLZWEIG, DR. TAYLOR, AND STAFF

**M242. Biochemical Preparations.**—Prerequisite: Biochemistry M241. 2 s.h.

DR. TAYLOR AND STAFF

**M341. Pathological Chemistry.**—Prerequisites: Biochemistry M241 and Physiology M261-2.

DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

##### BOTANY

**342. Plant Microchemistry.**—2 s.h. ASSISTANT PROFESSOR ADDOMS

##### PHYSICS

**323. Theory of Atomic Spectra.**—3 s.h. PROFESSOR SPONER

**324. Theory of Molecular Spectra.**—3 s.h. PROFESSOR SPONER  
[323 and 324 not offered in 1938-39]



## ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR GLASSON;\* PROFESSOR HOOVER, DIRECTOR OF GRADUATE STUDIES; PROFESSORS HAMILTON, SPENGLER AND VON BECKERATH; ASSISTANT PROFESSORS BLACK, DE VYVER, EITEMAN, RATCHFORD,\*\* AND SPRINGER

## FOR SENIORS AND GRADUATES

- 203-204. Money, Banking, and Credit.—6 s.h. PROFESSOR GLASSON
215. Economic Systems.—3 s.h. PROFESSOR HOOVER
216. Economic Functions of the State.—3 s.h. PROFESSOR HOOVER
217. Business Cycles.—3 s.h. PROFESSOR SPENGLER
218. Population Problems and the Standard of Living.—3 s.h.  
PROFESSOR SPENGLER
230. Public Debts in the United States.—3 s.h.  
ASSISTANT PROFESSOR RATCHFORD
231. The Economic History of Modern Europe.—3 s.h.  
PROFESSOR HAMILTON AND ASSISTANT PROFESSOR DE VYVER
232. The Economic History of the United States.—3 s.h.  
PROFESSOR HAMILTON AND ASSISTANT PROFESSOR DE VYVER
233. State and Local Finance.—Prerequisite: Economics 187 or equivalent.  
3 s.h. ASSISTANT PROFESSOR RATCHFORD  
[Not offered in 1938-39]
234. Federal Finance.—Prerequisite: Economics 187 or equivalent. 3 s.h.  
[Not offered in 1938-39] ASSISTANT PROFESSOR RATCHFORD
- 237-238. Statistical Methods.—Prerequisite: Business Statistics 138 or consent of the instructor. 6 s.h. ASSISTANT PROFESSOR SPRINGER
239. Prices.—3 s.h.  
PROFESSOR HAMILTON AND ASSISTANT PROFESSOR EITEMAN
- 241-242. Value and Distribution.—6 s.h. PROFESSOR SPENGLER
- 245-246. Problems of Modern Industrialism.—6 s.h.  
PROFESSOR VON BECKERATH
253. Labor Problems.—3 s.h. ASSISTANT PROFESSOR DE VYVER
256. Labor Legislation.—Prerequisite: Economics 51-52; Economics 253, or with the consent of the instructor. 3 s.h.  
[Not offered in 1938-39] ASSISTANT PROFESSOR DE VYVER
260. Social Insurance.—3 s.h. ASSISTANT PROFESSOR DE VYVER
265. International Trade and Tariff Policies.—3 s.h.  
PROFESSOR VON BECKERATH
266. International Finance.—3 s.h.  
PROFESSOR HAMILTON AND ASSISTANT PROFESSOR EITEMAN
268. Competitive versus Monopolistic Enterprise.—2 s.h.  
PROFESSOR VON BECKERATH

\* Absent on leave, second semester, 1938-1939.

\*\* Absent on leave, 1938-1939.



275-276. **Advanced Industrial Accounting and Management.**—Courses 57-58 and 105 are ordinarily prerequisites for this course. 6 s.h.

ASSISTANT PROFESSOR BLACK

#### FOR GRADUATES

311-312. **History of Political Economy.**—6 s.h.

PROFESSOR HAMILTON AND ASSISTANT PROFESSOR EITEMAN

313-314. **Seminar in Economic Theory.**—Prerequisite: Economics 241-242 or its equivalent. 6 s.h.

PROFESSOR HOOVER

318. **General Seminar in Economics.**—2 s.h.

STAFF

#### RELATED COURSES IN OTHER DEPARTMENTS

Attention is called to the following courses in related departments:

**Forestry 278. Economics of Forestry.**—3 s.h.

ASSOCIATE PROFESSOR THOMSON

**History 219-220. The History of the European Proletariat.**—6 s.h.

[Not offered in 1938-39]

PROFESSOR CARROLL

**Political Science 207. American Constitutional Law and Theory.**—3 s.h.

PROFESSOR WILSON

**Political Science 209. State and Local Governments in the United States.**—3 s.h.

PROFESSOR RANKIN

**Political Science 271. Socio-Politics and Capitalism.**—3 s.h.

PROFESSOR VON BECKERATH

**Sociology 219. Urban Sociology.**—3 s.h.

ASSISTANT PROFESSOR THOMPSON

**Sociology 220. Rural Sociology.**—3 s.h.

ASSISTANT PROFESSOR THOMPSON

**Sociology 227. Emigration and Immigration.**—3 s.h.

PROFESSOR JENSEN

[Not offered in 1938-39]

#### EDUCATION

PROFESSOR HOLTON, CHAIRMAN; PROFESSOR BROWNELL, DIRECTOR OF GRADUATE STUDIES; PROFESSORS CHILDS AND PROCTOR; ASSOCIATE PROFESSOR CARR; ASSISTANT PROFESSOR EASLEY

#### ELEMENTARY EDUCATION

##### FOR SENIORS AND GRADUATES

207. **Technique of Teaching.**—3 s.h.

ASSOCIATE PROFESSOR CARR

[Not offered in 1938-39]

212. **Psychology of the Elementary School Subjects.**—3 s.h.

ASSOCIATE PROFESSOR CARR

222. **The Curriculum and Materials of the Elementary Grades.**—3 s.h.

ASSOCIATE PROFESSOR CARR

232. **Elementary School Supervision.**—3 s.h.

ASSOCIATE PROFESSOR CARR

[Not offered in 1938-39]

#### EXPERIMENTAL EDUCATION AND EDUCATIONAL PSYCHOLOGY

##### FOR SENIORS AND GRADUATES

208. **Mental Tests and Applications.**—Prerequisite: course 258 or six semester-hours of other work in educational psychology or psychology. 3 s.h.

ASSISTANT PROFESSOR EASLEY

209. Statistical Methods Applied to Education.—3 s.h.  
[Not offered in 1938-39] ASSISTANT PROFESSOR EASLEY
216. Psychological Principles of Secondary Education.—3 s.h.  
[Not offered in 1938-39] PROFESSOR CHILDS
217. Advanced Educational Psychology.—3 s.h.  
ASSISTANT PROFESSOR EASLEY
218. Educational Implications of Genetic Psychology.—Prerequisite: six semester-hours of psychology or educational psychology. 3 s.h.  
[Not offered in 1938-39] PROFESSOR BROWNELL
219. Experimental Education.—3 s.h. PROFESSOR BROWNELL
227. The Psychology of Learning: Problems.—3 s.h.  
ASSISTANT PROFESSOR EASLEY
228. The Psychology of Learning: Theoretical and Experimental.—Pre-requisite: course 227 or its equivalent. 3 s.h. ASSISTANT PROFESSOR EASLEY
237. Investigations in Reading.—3 s.h. ASSOCIATE PROFESSOR CARR
247. Investigations in Arithmetic.—3 s.h. PROFESSOR BROWNELL
258. Educational Measurements.—Prerequisite: twelve semester-hours in the Department, including a course in educational psychology. 3 s.h.  
PROFESSOR BROWNELL

## FOR GRADUATES

- 307-308. Seminar in Educational Psychology.—2 s.h.  
PROFESSOR BROWNELL AND ASSISTANT PROFESSOR EASLEY
- 309-310. Research in Educational Psychology.—3 to 6 s.h.  
PROFESSOR BROWNELL
318. Investigation of Study Problems.—3 s.h. PROFESSOR BROWNELL  
[Not offered in 1938-39]
338. Research in Reading.—Education 247 is advised as a preliminary course, but is not required. 3 s.h. ASSOCIATE PROFESSOR CARR  
[Not offered in 1938-39]
348. Research in Arithmetic.—Education 247 is advised as a preliminary course, but is not required. 3 s.h. PROFESSOR BROWNELL  
[Not offered in 1938-39]

## HISTORY AND PHILOSOPHY OF EDUCATION

## FOR SENIORS AND GRADUATES

200. Introduction to the Philosophy of Education.—3 s.h.  
[Not offered in 1938-39] PROFESSOR HOLTON
214. History of Education in the United States.—3 s.h.  
[Not offered in 1938-39] PROFESSOR HOLTON
244. Studies in the Historical Development of Public School Administration.—3 s.h.  
[Not offered in 1938-39] PROFESSOR HOLTON
254. History of Secondary Education in the United States.—3 s.h.  
[Not offered in 1938-39] PROFESSOR PROCTOR

264. Recent Movements in American Education.—3 s.h.

PROFESSOR HOLTON

294. Comparative Education: Recent Movements in European Educational Systems.—3 s.h.

ASSOCIATE PROFESSOR CARR

### PUBLIC SCHOOL ADMINISTRATION

FOR SENIORS AND GRADUATES

233. Administrative Pupil-Accounting.—3 s.h.

PROFESSOR PROCTOR

[Not offered in 1938-39]

234. Secondary School Organization and Administration.—3 s.h.

PROFESSOR PROCTOR

253. Legal Phases of School Administration.—3 s.h.

PROFESSOR HOLTON

[Not offered in 1938-39]

FOR GRADUATES

323. Public School Finance.—3 s.h.

PROFESSOR PROCTOR

[Not offered in 1938-39]

343. State and County School Administration.—3 s.h.

PROFESSOR PROCTOR

[Not offered in 1938-39]

363. City School Administration.—3 s.h.

PROFESSOR PROCTOR

[Not offered in 1938-39]

### SECONDARY EDUCATION AND EDUCATIONAL SOCIOLOGY

FOR SENIORS AND GRADUATES

- S205. Curriculum Problems in Secondary Education.—3 s.h.

PROFESSOR CHILDS

[Not offered in 1938-39]

206. Sociological Foundations of the Secondary School Subjects.—Pre-requisite: six semester-hours in education, including course 105. 3 s.h.

PROFESSOR CHILDS

225. The Teaching of High-School History.—3 s.h.

ASSISTANT PROFESSOR MANCHESTER

246. The Teaching of Mathematics.—3 s.h.

PROFESSOR RANKIN

266. The Teaching of High-School French.—3 s.h.

PROFESSOR WEBB

FOR GRADUATES

300. Methods of Educational Research: Seminar.—3 s.h.

MEMBERS OF THE DEPARTMENT

### RELATED COURSES IN OTHER DEPARTMENTS

FOR MAJORS IN EDUCATIONAL PSYCHOLOGY, ELEMENTARY EDUCATION,  
AND SECONDARY EDUCATION

- Psychology 201. Social Psychology.—2 s.h.

PROFESSOR McDougall

[Not offered in 1938-39]

- Psychology 205. General Psychology.—2 s.h.

- Psychology 209. Advanced Laboratory Methods in Psychology, with Lectures.—4 s.h.

ASSOCIATE PROFESSOR ZENER

Psychology 211. Neurological Foundations of Behavior.—4 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR ZENER

Psychology 216. Seminar in Comparative Psychology.—2 or 3 s.h.  
ASSISTANT PROFESSOR ADAMS

Psychology 217. Gestalt Theory.—3 s.h. ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]

Psychology 219. History of Psychology.—2 s.h. PROFESSOR McDUGALL

Psychology 226. Contemporary Schools of Psychology.—3 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR ZENER

Psychology 305. Seminar.—2 or 3 s.h. PROFESSOR McDUGALL  
[Not offered in 1938-39]

Psychology 306. Seminar in Child Psychology.—2 or 3 s.h.  
[Offered in first semester, 1938-39] ASSISTANT PROFESSOR ADAMS

Psychology 309. Theory of Learning.—3 s.h. ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]

Psychology 315. Child Psychology.—3 s.h. ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]

Sociology 212. Child Welfare.—3 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]

Sociology 232. Cultural Anthropology.—3 s.h. PROFESSOR HART

Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR ELLWOOD

Sociology 320. History of Social Philosophy.—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN

#### FOR MAJORS IN PUBLIC SCHOOL ADMINISTRATION

Economics 230. Public Debts.—3 s.h. ASSISTANT PROFESSOR RATCHFORD

Political Science 209. State and Local Government in the United States.—  
3 s.h. PROFESSOR RANKIN

Political Science 291. Municipal Government.—3 s.h. PROFESSOR RANKIN

Religion 365. Seminar in Character Education and the State.—2 s.h.  
PROFESSOR SMITH

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]

#### FOR MAJORS IN HISTORY AND PHILOSOPHY OF EDUCATION

History 209-210. Constitutional History of the United States, 1763-1860.—  
6 s.h. ASSOCIATE PROFESSOR SYDNOR AND ASSISTANT PROFESSOR STILL

History 308. Studies in the Social History of the United States.—4 s.h.  
PROFESSOR SHRYOCK

Philosophy 205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY

Philosophy 208. Political Philosophy.—3 s.h.  
ASSOCIATE PROFESSOR MORGAN

- Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY  
 Religion 362. Ethical Theory of Christian Education.—3 s.h.  
 PROFESSOR SMITH  
 Religion 363-364. Religious Thought in the Rise of American Culture.—  
 6 s.h. PROFESSOR SMITH  
 Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR ELLWOOD  
 Sociology 320. History of Social Philosophy.—3 s.h.  
 PROFESSORS ELLWOOD AND JENSEN

### ENGLISH

PROFESSOR BROWN, CHAIRMAN; PROFESSOR BAUM, DIRECTOR OF GRADUATE STUDIES;  
 PROFESSORS GILBERT,\* HUBBELL,\* IRVING, AND WHITE; ASSOCIATE  
 PROFESSOR GOHDES; ASSISTANT PROFESSOR WARD

#### FOR SENIORS AND GRADUATES

- 201-202. Anglo-Saxon.—6 s.h. PROFESSOR BROWN  
 203-204. Chaucer.—6 s.h. PROFESSOR BAUM  
 207-208. English Literature, 1400-1550.—6 s.h. PROFESSOR BAUM  
 [Not offered in 1938-39]  
 213-214. Folk-Lore and Folk-Songs.—3 s.h. PROFESSOR BROWN  
 [In 1938-39 the second half is offered during the first semester.]  
 215-216. Elizabethan Drama.—6 s.h. PROFESSOR GILBERT  
 [Only 215 offered in 1938-39]  
 217. Spenser.—3 s.h. PROFESSOR GILBERT  
 218. Milton.—3 s.h. PROFESSOR GILBERT  
 [In 1938-39 offered during the first semester]  
 219-220. English Prose and Poetry of the Eighteenth Century.—6 s.h.  
 PROFESSOR IRVING  
 221. Restoration and Eighteenth-Century Drama.—3 s.h.  
 [Not offered in 1938-39] ASSISTANT PROFESSOR WARD  
 225-226. Studies in Victorian Literature.—6 s.h. PROFESSOR BAUM  
 [Not offered in 1938-39]  
 227-228. Literary Criticism.—6 s.h. PROFESSOR GILBERT  
 [Not offered in 1938-39]  
 229-230. American Literature, 1800-1870.—Seniors must have credit for  
 English 137-138 or its equivalent. 6 s.h.  
 PROFESSOR HUBBELL AND ASSOCIATE PROFESSOR GOHDES  
 [In 1938-39 both 229 and 230 are offered in the first semester]  
 231-232. Special Studies in American Authors.—6 s.h.  
 [Not offered in 1938-39] ASSOCIATE PROFESSOR GOHDES  
 233-234. American Literature since 1870.—6 s.h.  
 ASSOCIATE PROFESSOR GOHDES  
 239-240. Shakespeare Problems.—3 s.h. PROFESSOR BROWN  
 [In 1938-39 the first half is offered during the second semester]  
 \* Absent on leave, second semester, 1938-39.



## FOR GRADUATES

- 303-304. **Studies in Elizabethan Literature.**—6 s.h. PROFESSOR GILBERT  
[Not offered in 1938-39]
- 307-308. **Southern Literature and Culture in the United States.**—6 s.h.  
[Not offered in 1938-39] PROFESSOR HUBBELL
- 313-314. **Studies in the Romantic Writers of the Early Nineteenth Century.**—6 s.h.  
[Not offered in 1938-39] PROFESSOR WHITE
- 315-316. **Middle English.**—6 s.h.  
[Not offered in 1938-39] PROFESSOR BAUM
- 349-350. **Research Courses.**—6 s.h.

Students who wish to elect one of these as a seminar course should consult the Director of Graduate Studies as early as possible.

In 1938-39 (d), (h), and (i) will be offered.

- (a) **Folk-Lore and the Ballad.** PROFESSOR BROWN
- (b) **Shakespeare Problems.** PROFESSOR BROWN
- (c) **English Languages and Literature, 1200-1550.** PROFESSOR BAUM
- (d) **Victorian Literature.** PROFESSOR BAUM
- (e) **Elizabethan and Seventeenth-Century Literature.** PROFESSOR GILBERT
- (f) **Literary Criticism.** PROFESSOR GILBERT
- (g) **The Eighteenth Century.** PROFESSOR WHITE
- (h) **The Romantic Movement.** PROFESSOR WHITE
- (i) **American Literature.**

PROFESSOR HUBBELL AND ASSOCIATE PROFESSOR GORDON

## RELATED COURSES IN OTHER DEPARTMENTS

The attention of students of English is directed to the following courses:

**German 205-206. Middle High German.**—6 s.h. PROFESSOR VOLLMER  
[Not offered in 1938-39]

**German 301-302. Gothic—History of the German Language.**—6 s.h.  
PROFESSOR VOLLMER

**Greek 201-202. Greek Tragedy.**—6 s.h.  
PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY

**History 308. Studies in the Social History of the United States.**—4 s.h.  
PROFESSOR SHRYOCK

**History 221-222. The Age of the Renaissance.**—6 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR NELSON

**History 223-224. Medieval Institutions and Culture.**  
ASSISTANT PROFESSOR QUINN

**Philosophy 201-202. The Philosophy of Art.**—6 s.h. PROFESSOR GILBERT

**Philosophy 213-214. History of Aesthetics.**—6 s.h. PROFESSOR GILBERT  
[Not offered in 1938-39]

**Psychology 202. Psychology of Aesthetics.**—3 s.h. PROFESSOR LUNDHOLM



## DIVISION OF FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS SCHUMACHER AND WOLF; ASSOCIATE PROFESSORS HARRAR, MAUGHAN,\* AND THOMSON; ASSISTANT PROFESSORS COILE\*\* AND KRAMER

## FOR SENIORS AND GRADUATES

224. **Forest Pathology.**—Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h. PROFESSOR WOLF

251. **Sampling Methods in Forestry.**—Prerequisite: Forestry S151. 2 s.h. PROFESSOR SCHUMACHER

252. **Forest Mensuration.**—Prerequisite: Forestry 251. 2 s.h. PROFESSOR SCHUMACHER

253. **Dendrology.**—Prerequisite: one year of botany. 3 s.h. ASSOCIATE PROFESSOR HARRAR

257. **Design of Forestry Experiments and Analysis of Data.**—5 s.h. PROFESSOR SCHUMACHER

259. **Wood Anatomy and Properties.**—Prerequisites: one year of botany and Chemistry 1 and 2, or equivalents. 3 s.h. ASSOCIATE PROFESSOR HARRAR

261. **Forest Soils.**—Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents. Physical geology and analytical chemistry are also desirable. 3 s.h. ASSISTANT PROFESSOR COILE

264. **Silvics.**—Desirable prerequisites: Botany 151 and 156, and Forestry 253 and 261, or equivalents. 3 s.h. PROFESSOR KORSTIAN

277. **Forest Policy.**—2 s.h. ASSOCIATE PROFESSOR THOMSON

278. **Economics of Forestry.**—Prerequisite: at least one course in the principles of economics. 3 s.h. ASSOCIATE PROFESSOR THOMSON

## FOR GRADUATES

323-324. **Advanced Forest Pathology.**—Prerequisites: plant physiology and forest pathology. Credits to be arranged. PROFESSOR WOLF

351-352. **Advanced Physiology of Forest Trees.**—Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged. ASSISTANT PROFESSOR KRAMER

357-358. **Research in Forestry.**—Credits to be arranged.

(a) **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents. PROFESSOR KORSTIAN

(b) **Forest Soils.**—Prerequisite: Forestry 261 or equivalent. ASSISTANT PROFESSOR COILE

(d) **Forest Management.**—Prerequisite: Forestry 281 or equivalent. ASSOCIATE PROFESSOR MAUGHAN

(e) **Forest Economics.**—Prerequisites: Forestry 278 and 282 or equivalents. ASSOCIATE PROFESSOR THOMSON

(f) **Wood Anatomy and Properties.**—Prerequisites: Forestry 259 and 260, or equivalents. ASSOCIATE PROFESSOR HARRAR

(g) **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents. PROFESSOR SCHUMACHER

\* On leave, first semester, 1937-1938.

\*\* On leave, second semester, 1938-1939.

## GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN; PROFESSOR KRUMMEL

FOR SENIORS AND GRADUATES

- 201-202. Goethe.—6 s.h. PROFESSOR KRUMMEL  
[Not offered in 1938-39]
- 207-208. German Romanticism.—6 s.h. PROFESSOR VOLLMER  
[Not offered in 1938-39]
- 209-210. Kleist, Grillparzer, and Hebbel.—6 s.h. PROFESSOR KRUMMEL
- 211-212. Heinrich Heine and the Young German Movement.—6 s.h. PROFESSOR VOLLMER
- 213-214. Literature of the Empire, 1871-1914.—6 s.h. PROFESSOR VOLLMER

FOR GRADUATES

- 301-302. Gothic—History of the German Language.—6 s.h. PROFESSOR VOLLMER

## RELATED COURSES IN OTHER DEPARTMENTS

The following courses in other departments are recommended to students, who are majoring in Germanics, as particularly valuable in building a proper background for Germanic studies:

Any graduate courses in literature or philology offered by the ancient and modern language departments.

- History 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
- History 221-222. The Age of the Renaissance.—6 s.h. ASSOCIATE PROFESSOR NELSON  
[Not offered in 1938-39]
- History 223-224. Medieval Institutions and Culture.—6 s.h. ASSISTANT PROFESSOR QUINN
- History 225-226. The Age of the Reformation.—6 s.h. ASSOCIATE PROFESSOR NELSON
- Philosophy 213-214. History of Aesthetics.—6 s.h. PROFESSOR GILBERT  
[Not offered in 1938-39]
- Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY
- Sociology 320. History of Social Philosophy.—3 s.h. PROFESSORS ELLWOOD AND JENSEN

## HISTORY

PROFESSOR LAPRADE, CHAIRMAN, AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS BOYD,\* CARROLL, AND SHRYOCK; ASSOCIATE PROFESSORS CLYDE,\*\* NELSON, AND SYDNOR; ASSISTANT PROFESSORS LANNING, MANCHESTER, QUINN, AND STILL; DR. WOODY

## AMERICAN HISTORY

FOR SENIORS AND GRADUATES

204. The Union, Confederacy, and Reconstruction.—3 s.h. DR. WOODY
- 209-210. Constitutional History of the United States, 1763-1860.—6 s.h. ASSOCIATE PROFESSOR SYDNOR AND ASSISTANT PROFESSOR STILL

\* Deceased, January 19, 1938.

\*\* Absent on leave, first semester, 1938-1939.

215-216. History of the Foreign Relations of the United States.—Pre-requisites: courses 91 and 92. 6 s.h. ASSOCIATE PROFESSOR CLYDE  
[Not offered in 1938-39]

231. The Hispanic Colonies of the New World.—3 s.h.  
ASSISTANT PROFESSOR LANNING

232. The Hispanic American Republics of the New World.—3 s.h.  
ASSISTANT PROFESSOR LANNING

233. The Cultural and Institutional History of Colonial Hispanic America.—3 s.h. ASSISTANT PROFESSOR LANNING  
[Not offered in 1938-39]

234. Political and Social Problems in the Hispanic American Republics.—3 s.h. ASSISTANT PROFESSOR LANNING  
[Not offered in 1938-39]

#### FOR GRADUATES

308. Studies in the Social History of the United States.—4 s.h.  
[Not offered in 1938-39] PROFESSOR SHRYOCK

315. Seminar in Southern History.—2 s.h. ASSOCIATE PROFESSOR SYDNOR

321. Seminar in the History of Spain and the Spanish-American Colonies.—Year course. 2 s.h. ASSISTANT PROFESSOR LANNING

322. Seminar in American Social History.—Year course. 2 s.h.  
[Not offered in 1938-39] PROFESSOR SHRYOCK

336. The South in Federal Politics, 1789-1860.—4 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR SYDNOR

337. Social and Economic Life of the Old South.—4 s.h.  
ASSOCIATE PROFESSOR SYDNOR

#### EUROPE AND THE FAR EAST

##### FOR SENIORS AND GRADUATES

217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL

219-220. The History of the European Proletariat.—6 s.h.  
[Not offered in 1938-39] PROFESSOR CARROLL

221-222. The Age of the Renaissance.—6 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR NELSON

223-224. Medieval Institutions and Culture.—6 s.h.  
ASSISTANT PROFESSOR QUINN

225-226. The Age of the Reformation.—6 s.h.  
ASSOCIATE PROFESSOR NELSON

241. History of Modern Japan.—3 s.h. ASSOCIATE PROFESSOR CLYDE

242. History of Modern China.—3 s.h. ASSOCIATE PROFESSOR CLYDE

##### FOR GRADUATES

305. Seminar in the History of England and the British Empire.—2 s.h.  
PROFESSOR LAPRADE

317. Seminar in Recent European History.—2 s.h. PROFESSOR CARROLL

325. British Nationality and Public Opinion.—4 s.h. PROFESSOR LAPRADE

327. Modern Phases of the English Constitution.—4 s.h.

[Not offered in 1938-39]

PROFESSOR LAPRADE

343. Seminar in the History of American Foreign Relations and the Far East.—2 s.h.

ASSOCIATE PROFESSOR CLYDE

### THE TEACHING OF HISTORY

FOR SENIORS AND GRADUATES

211. The Teaching of History and the Social Studies.—3 s.h.

ASSISTANT PROFESSOR MANCHESTER

### BIBLIOGRAPHY

FOR GRADUATES

326. Historiography and Bibliography.—2 s.h.

[Not offered in 1938-39]

MEMBERS OF THE DEPARTMENT

### RELATED COURSES IN OTHER DEPARTMENTS

Church History 334. The Church in America.—6 s.h. PROFESSOR GARBER

Economics 215. Economic Systems.—3 s.h. PROFESSOR HOOVER

Economics 216. Economic Functions of the State.—3 s.h.  
PROFESSOR HOOVER

Economics 231. Economic History of Modern Europe.—3 s.h.  
PROFESSOR HAMILTON

Economics 232. Economic History of the United States.—3 s.h.  
PROFESSOR HAMILTON

Economics 311-312. History of Political Economy.—6 s.h.  
PROFESSOR HAMILTON

Old Testament 309. History of the Ancient Near East.—3 s.h.  
ASSISTANT PROFESSOR STINESPRING

Political Science 223. Political Thought to the Seventeenth Century.—  
3 s.h. PROFESSOR WILSON  
[Not offered in 1938-39]

Political Science 224. Modern Political Theory.—3 s.h.  
[Not offered in 1938-39] PROFESSOR WILSON

Religious Education 363-364. Religious Thought in the Rise of American Culture.—6 s.h. PROFESSOR SMITH

Sociology 320. History of Social Philosophy.—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN

### MATHEMATICS

ASSOCIATE PROFESSOR GERGEN, CHAIRMAN; PROFESSOR THOMAS, DIRECTOR OF GRADUATE STUDIES; PROFESSORS ELLIOTT AND RANKIN; ASSOCIATE PROFESSOR CARLITZ; ASSISTANT PROFESSORS HICKSON, MILES, AND ROBERTS; DR. DRESSER

FOR SENIORS AND GRADUATES

201. History of Mathematics.—3 s.h.  
[Not offered in 1938-39]

PROFESSOR RANKIN

204. **Teaching of Mathematics.**—Must be preceded or accompanied by course 100. 3 s.h.  
PROFESSOR RANKIN

207. **Fundamental Concepts of Algebra and Geometry.**—Prerequisite: course 100. 3 s.h.  
PROFESSOR RANKIN

225-226. **Theory of Equations.**—Prerequisite: course 99. 6 s.h.  
[Not offered in 1938-39]

227-228. **Theory of Numbers.**—Prerequisite: course 100. 6 s.h.  
ASSOCIATE PROFESSOR CARLITZ

229-230. **Algebraic Numbers.**—Prerequisite: course 225. 6 s.h.  
ASSOCIATE PROFESSOR CARLITZ  
[Not offered in 1938-39]

235-236. **Modern Algebra.**—Prerequisite: course 226. 6 s.h.  
PROFESSOR THOMAS

250. **Modern Geometry.**—Prerequisite: course 99. 3 s.h.  
[Not offered in 1938-39] PROFESSOR RANKIN

252. **Non-Euclidean Geometry.**—Prerequisite: course 100. 3 s.h.  
[Not offered in 1938-39] ASSISTANT PROFESSOR ROBERTS

255-256. **Projective Geometry.**—Prerequisite: course 99. 6 s.h.  
[Not offered in 1938-39]

275. **Probability.**—Prerequisite: course 100. 3 s.h.  
[Not offered in 1938-39]

281. **Elementary Potential Theory.**—Prerequisite: course 100. 3 s.h.  
ASSISTANT PROFESSOR MILES

282. **Differential Equations of Mathematical Physics.**—Prerequisite: course 100. 3 s.h.  
DR. DRESSEL

283. **Fourier Series and Spherical Harmonics.**—(Formerly 280.) Prerequisite: course 100. 3 s.h.  
[Not offered in 1938-39]

284. **Vector Analysis.**—Prerequisite: course 100. 3 s.h.  
[Not offered in 1938-39]

287. **Mathematical Logic.**—3 s.h.  
[Not offered in 1938-39]

288. **Foundations of Mathematics.**—3 s.h.  
[Not offered in 1938-39]

291-292. **Theory of Functions.**—Prerequisite: course 140. 6 s.h.

#### FOR GRADUATES

325-326. **Real Variable.**—Prerequisite: course 291-292. 6 s.h.

331-332. **Complex Variable.**—(Formerly 330-331.) Prerequisite: course 291-292. 6 s.h.  
[Not offered in 1938-39]

333-334. **Analytic Theory of Numbers.**—Prerequisite: course 291-292. 6 s.h.  
[Not offered in 1938-39]

335-336. **Infinite Series.**—Prerequisite: course 139-140. 6 s.h.  
[Not offered in 1938-39]



- 337-338. **Existence Theorems.**—Prerequisite: course 291-292. 6 s.h.  
[Not offered in 1938-39]
- 341-342. **Integral Equations.**—(Formerly 340-341.) Prerequisites: courses 131 and 139-140. 6 s.h.  
[Not offered in 1938-39]
- 343-344. **Ordinary Differential Equations.**—(Formerly 342-343.) Prerequisite: course 291-292. 6 s.h. PROFESSOR THOMAS
- 345-346. **Calculus of Variations.**—Prerequisites: courses 131 and 291-292. 6 s.h. ASSISTANT PROFESSOR HICKSON  
[Not offered in 1938-39]
- 347-348. **Elliptic Functions.**—Prerequisite: course 291-292. 6 s.h.  
[Not offered in 1938-39]
- 351-352. **Differential Geometry.**—(Formerly 350-351.) Prerequisite: course 291-292. 6 s.h.  
[Not offered in 1938-39]
- 353-354. **Trigonometric Series.**—Prerequisite: course 325-326. 6 s.h.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR GERGEN
- 371-372. **Topology.**—Prerequisite: course 291-292. 6 s.h. ASSISTANT PROFESSOR ROBERTS
382. **Potential Theory.**—(Formerly 380-381.) Prerequisites: courses 281 and 325-326. 6 s.h.  
[Not offered in 1938-39]

## PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS GILBERT, SMITH,\* AND STERN;† ASSOCIATE PROFESSOR MORGAN; ASSISTANT PROFESSOR LEONARD; AND DR. MCLARTY

### FOR SENIORS AND GRADUATES

- 201-202. **The Philosophy of Art.**—6 s.h. PROFESSOR GILBERT
203. **The Philosophy of Conduct.**—3 s.h. ASSOCIATE PROFESSOR MORGAN
204. **Christian Ethics.**—3 s.h. PROFESSOR SMITH
205. **The Philosophy of History.**—3 s.h. PROFESSOR WIDGERY
206. **Modern Political Theory.**—3 s.h. Political Science 224.  
[Not offered in 1938-39] PROFESSOR WILSON
207. **Political Thought to the Seventeenth Century.**—3 s.h. Political Science 223. PROFESSOR WILSON  
[Not offered in 1938-39]
208. **Political Philosophy.**—3 s.h. ASSOCIATE PROFESSOR MORGAN
- 209-210. **The Philosophy of Religion.**—6 s.h. PROFESSOR WIDGERY  
[Not offered in 1938-39]
212. **Psychology of Belief.**—2 s.h. Psychology 228. PROFESSOR LUNDHOLM
- 213-214. **History of Aesthetics.**—6 s.h. PROFESSOR GILBERT  
[Not offered in 1938-39]

\* On leave, first semester, 1938-39.

† Deceased, March 27, 1938.



215-216. Plato.—*Symposium, Protagoras*, and parts of the *Republic*. 6 s.h.  
Greek 209-210. ASSISTANT PROFESSOR WAY

217. The Philosophy of Aristotle.—Prerequisite: 105. 3 s.h.  
[Not offered in 1938-39] DR. McLARTY

219-220. The Age of the Renaissance.—6 s.h. History 221-222.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR NELSON

222. Philosophical and Psychological Problems of Critical Personalism.—  
2 s.h. Psychology 222. PROFESSOR STERN  
[Not offered in 1938-39]

223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY

226. The History of Ethics.—3 s.h. ASSOCIATE PROFESSOR MORGAN  
[Not offered in 1938-39]

227. Foundations of Mathematics.—3 s.h. Mathematics 288.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR CARLITZ

228. Mathematical Logic.—3 s.h. Mathematics 287.  
[Not offered in 1938-39] ASSOCIATE PROFESSOR CARLITZ

229-230. Contemporary Physics.—6 s.h. Physics 213-214.  
ASSISTANT PROFESSOR CONSTANT

231-232. Philosophy of Science. ASSISTANT PROFESSOR LEONARD

234. Introduction to the Philosophy of Education.—3 s.h. Education 200.  
[Not offered in 1938-39] PROFESSOR HOLTON

236. Oriental Philosophy I. Chinese Philosophy.—3 s.h.  
ACTING PROFESSOR DUBS

238. Oriental Philosophy II. Indian Philosophy.—3 s.h.  
PROFESSOR WIDGERY

241. Logic.—3 s.h. ASSISTANT PROFESSOR LEONARD

242. Scientific Methodology.—3 s.h. ASSISTANT PROFESSOR LEONARD

244. European Thought in the Latter Half of the Nineteenth Century,  
with Special Reference to Nietzsche.—Prerequisite: 6 hours; admission other-  
wise by permission of the instructor. A reading knowledge of German is  
desirable. 3 s.h. ASSOCIATE PROFESSOR MORGAN

245-246. Philosophical Foundations of Religious Belief.—6 s.h.  
ACTING PROFESSOR DUBS

248. Philosophy of Values.—2 s.h. PROFESSOR STERN

#### FOR GRADUATES

301-302. Seminar in Philosophy.—4 s.h. PROFESSOR WIDGERY

305. Seminar: Spinoza.—3 s.h. PROFESSOR GILBERT

307. Seminar: Kant. ASSOCIATE PROFESSOR MORGAN  
[Not offered in 1938-39]

308. Seminar: Hegel.—3 s.h. PROFESSOR GILBERT  
[Not offered in 1938-39]

309. Seminar for German Readings in Psychology and Philosophy.—  
2 s.h. Psychology 311. PROFESSOR STERN

310. Seminar: Logical Positivism.—2 s.h. ASSISTANT PROFESSOR LEONARD
311. Historical and Philosophical Zoology.—2 s.h. Zoology 341.  
PROFESSOR HARGITT
- 313-314. Seminar: Theories of Self.—4 s.h. Religion 377-378.  
PROFESSOR HICKMAN
315. Seminar: Leibnitz.—2 s.h. ACTING PROFESSOR DUBS  
[Not offered in 1938-39]
316. History of Social Philosophy.—3 s.h. Sociology 320.  
PROFESSORS ELLWOOD AND JENSEN
317. Theology in Ancient and Medieval Christianity.—Prerequisite: Christian Doctrine 321-322. 3 s.h. Religion 323. PROFESSOR ROWE
318. Theology in Modern Christianity.—Prerequisite: Christian Doctrine 321-322. 3 s.h. Religion 324. PROFESSOR ROWE
- 319-320. Religious Thought in the Rise of American Culture.—Prerequisite: Religious Education 261 or its equivalent. 3 s.h. Religion 363-364.  
[Not offered in 1938-39] PROFESSOR SMITH
322. Seminar in Philosophy of Religious Education.—Prerequisite: Religious Education 261 or its equivalent. 2 s.h. Religion 366.  
PROFESSOR SMITH
323. Seminar: Bushnell, Channing, Emerson.—2 s.h. PROFESSOR SMITH  
[Not offered in 1938-39]
325. Seminar: Locke, Berkeley, Hume.—2 s.h. ASSISTANT PROFESSOR LEONARD

## PHYSICS

PROFESSOR NIELSEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS EDWARDS, HATLEY, NORDHEIM, AND SPONER; ASSISTANT PROFESSORS CONSTANT AND MOUZON; DR. BONNER

## FOR SENIORS AND GRADUATES

- 203-204. Analytical Mechanics.—6 s.h. ASSISTANT PROFESSOR MOUZON
- 205-206. Physical Optics.—6 s.h. PROFESSOR HATLEY
211. History of Physics.—2 s.h. PROFESSOR EDWARDS
- 213-214. Contemporary Physics.—6 s.h. ASSISTANT PROFESSOR CONSTANT
- 215-216. Atomic Physics Laboratory.—2 s.h.  
PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON
- 217-218. Advanced General Physics Laboratory.—2 s.h.  
PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON
- 221-222. Introduction to Theoretical Physics.—6 s.h.  
ASSISTANT PROFESSOR CONSTANT

## FOR GRADUATES

303. Thermodynamics.—3 s.h. PROFESSORS GROSS AND SPONER
304. Kinetic Theory of Matter.—3 s.h. PROFESSOR SPONER
307. Theory of Electricity and Magnetism.—Prerequisite: Physics 221-222. 3 s.h. ASSISTANT PROFESSOR CONSTANT

311. Conduction of Electricity through Gases.—3 s.h. PROFESSOR EDWARDS
- 315-316. Principles of Quantum Theory.—6 s.h. PROFESSOR NORDHEIM  
[Not offered in 1938-39]
317. Advanced Dynamics.—3 s.h. \_\_\_\_\_  
[Not offered in 1938-39]
319. Electrodynamics.—3 s.h. PROFESSOR NORDHEIM
320. Theory of Electrons.—Prerequisite: Physics 319. 3 s.h. PROFESSOR NORDHEIM
323. Theory of Atomic Spectra.—3 s.h. PROFESSOR SPONER  
[Not offered in 1938-39]
324. Theory of Molecular Spectra.—3 s.h. PROFESSOR SPONER  
[Not offered in 1938-39]
340. Structure of Matter.—3 s.h. PROFESSORS NORDHEIM AND SPONER
- 341-342. Advanced Topics in Physics.—2-6 s.h. PROFESSORS SPONER AND NORDHEIM  
The fields taken up in the courses 340-342 will vary from year to year.
- 343-344. Radioactivity and Nuclear Structure.—6 s.h. PROFESSOR NIELSEN
- 345-346. Colloquium.—No credit. STAFF
- 351-352. Seminar.—2 s.h. STAFF
- 353-354. Thesis Seminar.—6 s.h. STAFF

#### RELATED COURSES IN OTHER DEPARTMENTS

##### CHEMISTRY

- 261-262. Physical Chemistry.—6 s.h. PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS
- 363-364. Advanced Physical Chemistry.—6 s.h. PROFESSORS GROSS AND VOSBURGH, ASSISTANT PROFESSOR SAYLOR, DR. HILL AND HOBBS  
[Not offered in 1938-39]

##### ELECTRICAL ENGINEERING

261. Communication Engineering, Audio Frequency.—3 s.h. PROFESSOR SEELEY
262. Communication Engineering, Radio Frequency.—Prerequisite: course 261. 4 s.h. PROFESSOR SEELEY

##### MATHEMATICS

281. Elementary Potential Theory.—3 s.h. ASSISTANT PROFESSOR MILES
282. Differential Equations of Mathematical Physics.—3 s.h. DR. DRESSSEL
283. Fourier's Series and Spherical Harmonics.—3 s.h. \_\_\_\_\_  
[Not offered in 1938-39]
284. Vector Analysis.—3 s.h. \_\_\_\_\_  
[Not offered in 1938-39]

## POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES ; PROFESSORS  
RANKIN AND VON BECKERATH ; ASSOCIATE PROFESSORS COLE AND  
SHIPMAN ; DR. LINEBARGER

## FOR SENIORS AND GRADUATES

207. American Constitutional Law and Theory.—3 s.h. PROFESSOR WILSON

209. State and Local Government in the United States.—3 s.h.  
PROFESSOR RANKIN

211. Political Institutions of the Far East.—3 s.h. DR. LINEBARGER

212. International Politics of the Far East.—3 s.h. DR. LINEBARGER

223. Political Thought to the Seventeenth Century.—3 s.h.  
[Not offered in 1938-39] PROFESSOR WILSON

224. Modern Political Theory.—3 s.h. PROFESSOR WILSON  
[Not offered in 1938-39]

225-226. Comparative Government.—6 s.h. ASSOCIATE PROFESSOR COLE

227-228. International Law and International Organization.—6 s.h.  
PROFESSOR WILSON

229. Recent and Contemporary Political Theory.—3 s.h.  
ASSOCIATE PROFESSOR COLE

230. American Political Institutions.—3 s.h. PROFESSOR RANKIN

241-242. Principles of Public Administration.—6 s.h. \_\_\_\_\_

244. Problems in Public Administration.—3 s.h. \_\_\_\_\_

271. Socio-Politics and Capitalism.—3 s.h. PROFESSOR VON BECKERATH

291. Municipal Government.—3 s.h. PROFESSOR RANKIN

292. Municipal Administration.—3 s.h. PROFESSOR RANKIN  
[Not offered in 1938-39]

## FOR GRADUATES

310. Seminar in State Government.—Open to students who have completed  
course 209 or its equivalent. 3 s.h. PROFESSOR RANKIN

325. Seminar in Comparative Government.—Open to students who have  
completed course 225-226 or its equivalent. 3 s.h. ASSOCIATE PROFESSOR COLE  
[Not offered in 1938-39]

328. Seminar in International Law.—Open to students who have completed  
course 227-228 or its equivalent, or who may be taking that course. 3 s.h.  
PROFESSOR WILSON

## RELATED COURSES IN OTHER DEPARTMENTS

Economics 216. Economic Functions of the State.—3 s.h.  
PROFESSOR HOOVER

Economics 230. Public Debts in the United States.—3 s.h.  
ASSISTANT PROFESSOR RATCHFORD

Economics 265. International Trade and Tariff Policies.—3 s.h.  
PROFESSOR VON BECKERATH

Economics 266. International Finance.—3 s.h. PROFESSOR HAMILTON

History 215-216. History of the Foreign Relations of the United States.—  
6 s.h. ASSOCIATE PROFESSOR CLYDE  
[Not offered in 1938-39]

History 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL

Philosophy 208. Political Philosophy.—3 s.h.  
ASSOCIATE PROFESSOR MORGAN

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]

Readings in Jurisprudence.—Offered in the School of Law.  
PROFESSOR FULLER

Roman Law.—Offered in the School of Law. PROFESSOR FULLER

### PSYCHOLOGY

PROFESSOR MCDUGALL, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFES-  
SORS LUNDHOLM, RHINE, AND STERN;\* ASSOCIATE PROFESSOR  
ZENER; ASSISTANT PROFESSOR ADAMS

#### FOR SENIORS AND GRADUATES

201. Social Psychology.—2 s.h. PROFESSOR MCDUGALL  
[Not offered in 1938-39]

202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM

204. Psychology of Motivation.—3 s.h. ASSOCIATE PROFESSOR ZENER

205. General Psychology (Activity, Feeling, Willing).—2 s.h.  
PROFESSOR STERN\*

207. Experimental Psychology.—3 s.h. ASSOCIATE PROFESSOR ZENER  
[In 1938-39 offered in the spring semester only]

209. Advanced Laboratory Methods in Psychology, with Lectures.—4 s.h.  
ASSOCIATE PROFESSOR ZENER

211. Neurological Foundations of Behavior: A Comparative Study of the  
Structure and Function of the Nervous System in Relation to Behavior.—  
4 s.h. ASSOCIATE PROFESSOR ZENER  
[Not offered in 1938-39]

212. Developmental Psychology (Psychology of Childhood and Youth).—  
3 s.h. PROFESSOR STERN\*

216. Seminar in Comparative Psychology.—2 or 3 s.h.  
ASSISTANT PROFESSOR ADAMS

217. Gestalt Theory.—3 s.h. ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]

219. History of Psychology.—2 s.h. PROFESSOR MCDUGALL

222. Philosophical and Psychological Problems of Critical Personalism.—  
2 s.h. PROFESSOR STERN\*  
[Not offered in 1938-39]

\* Deceased, March 27, 1938.



223. **Abnormal Psychology.**—3 s.h. PROFESSOR LUNDHOLM
226. **Contemporary Schools of Psychology.**—Graduates and Seniors with permission of instructor. 3 s.h. ASSOCIATE PROFESSOR ZENER  
[Not offered in 1938-39]
228. **Psychology of Belief.**—2 s.h. PROFESSOR LUNDHOLM
229. **Seminar in Child Psychology.**—2 or 3 s.h. PROFESSOR STERN\*
230. **Seminar in Personalistic Psychology.**—2 or 3 s.h. PROFESSOR STERN\*
- 231-232. **Introduction to Research.**—Open to Seniors after consultation with the staff member supervising the research. 2 or 3 s.h.  
PROFESSORS McDougall, LUNDHOLM, RHINE AND STERN;\*  
ASSOCIATE PROFESSOR ZENER; ASSISTANT PROFESSOR ADAMS
233. **Social Psychology of Value and Valuation.**—3 s.h.  
PROFESSOR McDougall
- FOR GRADUATES
302. **Seminar.**—2 or 3 s.h. (E) PROFESSOR LUNDHOLM  
[Not offered in 1938-39]
- 303-304. **Research.**—2 or 3 s.h.  
PROFESSORS McDougall, LUNDHOLM, RHINE AND STERN;\*  
ASSOCIATE PROFESSOR ZENER; ASSISTANT PROFESSOR ADAMS
305. **Seminar.**—2 or 3 s.h. PROFESSOR McDougall  
[Not offered in 1938-39]
306. **Seminar in Child Psychology.**—2 or 3 s.h.  
ASSISTANT PROFESSOR ADAMS  
[In 1938-39 offered in the fall semester only]
307. **Seminar in Psychology of Personality.**—3 s.h. PROFESSOR RHINE  
[Not offered in 1938-39]
308. **Seminar in Child Psychology.** PROFESSOR STERN\*  
[Not offered in 1938-39]
309. **Theory of Learning.**—3 s.h. ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]
311. **Seminar.**—Readings in German for Philosophers and Psychologists.—  
2 s.h. PROFESSOR STERN
- 313-314. **Seminar in Parapsychology.**—6 s.h. (E) PROFESSOR RHINE
315. **Child Psychology.**—3 s.h. ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]

## RELIGION

Graduate work in the field of religion is available in the following departments: Old Testament, New Testament, Christian Doctrine, Church History, Religious Education, Psychology of Religion, History of Religion, Philosophy, and Sociology. Students interested in graduate work in these fields are referred to the *Bulletin of the School of Religion* of Duke University. All the courses listed there, except those of a professional character, may be offered for credit toward the degrees of the Graduate School. A number of these courses will be found listed in this bulletin also under the headings of related departments.

\* Deceased, March 27, 1938.



It is possible to secure work leading to the degree of Doctor of Philosophy in a number of these fields. For this degree the departmental groupings of courses are ignored and a program of work is planned for each candidate in which the total resources of the Graduate School will be utilized in so far as they relate to the student's needs and special subject of investigation.

## ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN; PROFESSOR JORDAN,\* DIRECTOR OF GRADUATE STUDIES;  
PROFESSOR COWPER; ASSOCIATE PROFESSORS LUNDEBERG AND WALTON

### FRENCH

#### FOR SENIORS AND GRADUATES

- |   |                            |
|---|----------------------------|
| 215-216. The Modern French Novel.—6 s.h.  | PROFESSOR JORDAN           |
| 217. French Phonetics.—3 s.h.   | PROFESSOR WEBB             |
| 218. Materials and Methods.—3 s.h.  | PROFESSOR WEBB             |
| 219. Old French.—3 s.h.<br>[Not offered in 1938-39]                                 | PROFESSOR COWPER           |
| 220. Old French.—Types of Old French literature. 3 s.h.<br>[Not offered in 1938-39] | PROFESSOR COWPER           |
| 227. French Poetry since Théophile Gautier.—3 s.h.<br>[Not offered in 1938-39]      | ASSOCIATE PROFESSOR WALTON |
| 232. Rousseau and the Beginnings of Romanticism.—3 s.h.                             | PROFESSOR COWPER           |
| 233. Main Currents of Modern French Literature.—3 s.h.                              | ASSOCIATE PROFESSOR WALTON |

#### FOR GRADUATES

- |   |                            |
|---|----------------------------|
| 317. History of the French Language.—3 s.h.   | PROFESSOR COWPER           |
| 323-324. Realism and Naturalism.—6 s.h.<br>[Not offered in 1938-39]                     | PROFESSOR JORDAN           |
| 325-326. French Literature in the Sixteenth Century.—6 s.h.<br>[Not offered in 1938-39] | ASSOCIATE PROFESSOR WALTON |
| 328. Anatole France.—3 s.h.<br>[Not offered in 1938-39]                                 | ASSOCIATE PROFESSOR WALTON |
| 329. History of French Civilization.—3 s.h.<br>[Not offered in 1938-39]                 | PROFESSOR WEBB             |
| 330. Victor Hugo.—3 s.h.<br>[Not offered in 1938-39]                                    | PROFESSOR WEBB             |
| 331. Diderot and the Encyclopédie.—3 s.h.<br>[Not offered in 1938-39]                   | PROFESSOR COWPER           |
| 333-334. Contemporary French Literature.—6 s.h.<br>[Not offered in 1938-39]             | PROFESSOR JORDAN           |
| 350. Nineteenth Century French Criticism.— <i>First semester.</i> 3 s.h.                | PROFESSOR JORDAN           |

\* Absent on leave, second semester, 1938-1939.

## SPANISH

FOR SENIORS AND GRADUATES

261-262. The Modern Spanish Novel.—6 s.h.

ASSOCIATE PROFESSOR LUNDEBERG

265. Golden Age Literature: Cervantes.—3 s.h.

[Not offered in 1938-39]

ASSOCIATE PROFESSOR LUNDEBERG

266. Golden Age Literature: The Don Juan Theme.—3 s.h.

[Not offered in 1938-39]

ASSOCIATE PROFESSOR LUNDEBERG

## SOCIOLOGY

PROFESSOR ELLWOOD,\* CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS  
HART AND JENSEN; ASSISTANT PROFESSOR THOMPSON

205. Social Pathology.—Prerequisite: course 91-92 or 101. 3 s.h.

PROFESSOR JENSEN

206. Criminology.—Prerequisite: course 91-92 or 101. 3 s.h.

PROFESSOR JENSEN

212. Child Welfare.—Prerequisite: course 91-92 or 101. 3 s.h.

[Not offered in 1938-39]

PROFESSOR JENSEN

213. Constructive Social Policies.—2 s.h.

[Not offered in 1938-39]

PROFESSOR JENSEN

219. Urban Sociology.—Prerequisite: course 91-92 or 101. 3 s.h.

ASSISTANT PROFESSOR THOMPSON

220. Rural Sociology.—Prerequisite: course 91-92 or 101. 3 s.h.

ASSISTANT PROFESSOR THOMPSON

227. Emigration and Immigration.—Prerequisite: course 91-92 or 101.  
3 s.h.

PROFESSOR JENSEN

[Not offered in 1938-39]

231. General Anthropology.—(Formerly 217.) 3 s.h.

PROFESSOR HART

232. Cultural Anthropology.—(Formerly 218.) 3 s.h.

PROFESSOR HART

233. The World Crisis in the Light of Social Anthropology.—Prerequisite:  
Courses in General Anthropology and in General Sociology, or equivalent.  
3 s.h.

PROFESSOR HART

234. Social Ethics.—3 s.h.

PROFESSOR HART

236. The American Indian.—3 s.h.

[Not offered in 1938-39]

242. Marriage and the Family.—Prerequisite for undergraduate credit:  
Sociology 91-92 or 101. 2 s.h.

PROFESSOR GROVES (U. N. C.)

## FOR GRADUATES

317. Seminar in Anthropology.—1 to 3 s.h.

PROFESSOR HART

318. Religion and the World Crisis.—Prerequisite: course 231. 3 s.h.

PROFESSOR HART

319. Principles of Sociology.—Discussions and papers by the class. 3 s.h.

PROFESSOR ELLWOOD

320. History of Social Philosophy.—A large amount of assigned reading  
will be required in this course. The student is advised to correlate this  
course with related courses in economics, history, political science, and  
philosophy. 3 s.h.

PROFESSORS ELLWOOD AND JENSEN

\* Absent on leave, second semester, 1938-39.

322. **Methods of Social Research.**—3 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]

330. **Seminar.**—1 s.h. *each semester.*  
PROFESSORS ELLWOOD, HART, AND JENSEN;  
ASSISTANT PROFESSOR THOMPSON

340. **Seminar.**—3 s.h. *each semester.* ASSISTANT PROFESSOR THOMPSON

350. **Seminar in Applied Sociology.**—1 to 3 s.h. *each semester.*  
PROFESSOR JENSEN

#### RELATED COURSES IN OTHER DEPARTMENTS

**Economics 215. Economic Systems.**—3 s.h. PROFESSOR HOOVER

**Economics 216. Economic Functions of the State.**—3 s.h.  
PROFESSOR HOOVER

**Economics 218. Population Problems and the Standard of Living.**—3 s.h.  
PROFESSOR SPENGLER

**Philosophy 205. Philosophy of History.**—3 s.h. PROFESSOR WIDGERY

**Political Science 223. Political Thought to the Seventeenth Century.**—  
3 s.h. PROFESSOR WILSON  
[Not offered in 1938-39]

**Political Science 224. Modern Political Theory.**—3 s.h.  
[Not offered in 1938-39] PROFESSOR WILSON

**Psychology 201. Social Psychology.**—2 s.h. PROFESSOR McDougall  
[Not offered in 1938-39]

#### ZOOLOGY

PROFESSOR PEARSE, CHAIRMAN; PROFESSOR HARGITT, DIRECTOR OF GRADUATE  
STUDIES; PROFESSORS CUNNINGHAM AND HALL; ASSOCIATE  
PROFESSOR GRAY

##### FOR SENIORS AND GRADUATES

**204. Advanced Parasitology.**—Offered in alternate years. (Formerly 304.)  
Prerequisite: Zoology 161. 3 or 4 s.h. PROFESSOR PEARSE

**219-220. Special Problems.**—(Not more than 4 hours credit may be ob-  
tained in one semester.) STAFF

**222. Entomology.**—Offered in alternate years. Prerequisite: one year of  
zoology. 4 s.h. ASSOCIATE PROFESSOR GRAY  
[Not offered in 1938-39]

**224. Vertebrate Zoology.**—Offered in alternate years. Prerequisite: Zool-  
ogy 53. 4 s.h.

**229. Endocrinology.**—Prerequisites: Zoology 53, 92. 3 or 4 s.h.  
PROFESSOR CUNNINGHAM

##### FOR GRADUATES

**303. Ecology.**—Offered in alternate years. 4 s.h. PROFESSOR PEARSE

**306. Advanced Ecology.**—Offered in alternate years. Prerequisite: Zool-  
ogy 303. 4 s.h. PROFESSOR PEARSE

**321. General Physiology.**—4 s.h. PROFESSOR HALL

**324. Advanced Physiology.**—Prerequisite: Zoology 151 or 321. 4 s.h.  
PROFESSOR HALL

327. **Experimental Embryology.**—Offered in alternate years. Prerequisites: Zoology 92, 151 or 321. 3 s.h. PROFESSOR CUNNINGHAM  
[Not offered in 1938-39]

341. **Historical and Philosophical Zoology.**—Offered in alternate years. 2 s.h. PROFESSOR HARGITT

343. **Cytology.**—Offered in alternate years. Prerequisites: Zoology 53, 92, 156 or equivalents. 4 s.h. PROFESSOR HARGITT  
[Not offered in 1938-39]

351-352. **Zoological Journal Club.**—Required of all graduate students who major in zoology. 2 s.h. STAFF

353-354. **Research.**—Hours and credits to be arranged.

(a) **Embryology and Endocrinology.** PROFESSOR CUNNINGHAM

(b) **Comparative and General Physiology.** PROFESSOR HALL

(c) **Histology and Cytology.** PROFESSOR HARGITT

(e) **Ecology, Parasitology, and Behavior.** PROFESSOR PEARSE

(f) **Vertebrate Zoology and Entomology.** ASSOCIATE PROFESSOR GRAY

355-356. **Seminar.**—Hours and credits to be arranged.

\*(a) **Embryology and Endocrinology.** PROFESSOR CUNNINGHAM

(b) **Comparative and General Physiology.** PROFESSOR HALL

\*(c) **Histology and Cytology.** PROFESSOR HARGITT

\*(e) **Ecology, Parasitology, and Behavior.** PROFESSOR PEARSE

(f) **Vertebrate Zoology and Entomology.** ASSOCIATE PROFESSOR GRAY

#### RELATED COURSES IN OTHER DEPARTMENTS

Courses such as the following should be considered as available for students in zoology:

Botany 202. **Genetics.**—4 s.h. DR. PERRY

Botany 221. **Structure and Classification of Fungi.**—4 s.h. PROFESSOR WOLF

Botany 256. **Field Ecology.**—4 s.h. ASSISTANT PROFESSOR OOSTING

Botany 341. **Methods in Plant Physiology.**—4 s.h. ASSISTANT PROFESSOR KRAMER

Botany 342. **Plant Microchemistry.**—2 s.h. ASSISTANT PROFESSOR ADDOMS

Chemistry 260. **Colloid Chemistry.**—3 s.h. PROFESSOR VOSBURGH, ASSISTANT PROFESSOR SAYLOR  
[Not offered in 1938-39]

Chemistry 261-262. **Physical and Electro Chemistry.**—6 s.h. PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

Physics 103. **Electricity and Magnetism.**—(Undergraduate credit only.) 3 s.h. ASSISTANT PROFESSOR CONSTANT

Physics 104. **Electrical Measurements.**—(Undergraduate credit only.) 3 s.h. ASSISTANT PROFESSOR CONSTANT

Physics 205-206. **Physical Optics.**—6 s.h. PROFESSOR HATLEY

Psychology 224. **Laboratory Methods in Animal Psychology.**—3 s.h. ASSISTANT PROFESSOR ADAMS  
[Not offered in 1938-39]

M221. **Bacteriology and Immunology.**—4 s.h. DR. D. T. SMITH AND STAFF

\* [Not offered in 1938-39]

**M323. Advanced Bacteriology and Immunology.—8 s.h.**

DR. D. T. SMITH AND STAFF

**M241. General Biochemistry.—6 s.h.**

DR. PERLZWEIG, DR. TAYLOR, AND STAFF

**M263. Physiology of Digestion, Metabolism, and Nutrition.—2 s.h.**

DRS. W. J. DANN, EADIE, AND F. M. BERNHEIM

### COURSES IN THE MEDICAL SCHOOL OPEN TO GRADUATE STUDENTS

PROFESSORS EADIE, PERLZWEIG, D. T. SMITH, AND SWETT; ASSOCIATE PROFESSORS  
F. M. BERNHEIM, HETHERINGTON, AND MCCREA; ASSISTANT PROFESSORS  
M. L. C. BERNHEIM, DANN, AND TAYLOR; DRs. CONANT,  
COOLIDGE, EVERETT, HOLLINSHEAD, AND YATES

#### ANATOMY

**M201. Gross Human Anatomy.**—Hours and credits (maximum 8 s.h.) by arrangement. Prerequisites: Zoology 41 and 191 or the equivalent.

DR. SWETT AND STAFF

**M202. Microscopic Anatomy.**—Hours and credits (maximum 2 s.h.) by arrangement. Prerequisite: Zoology 42 (General Histology) or its equivalent.

DR. HETHERINGTON AND STAFF

**M203. Anatomy of the Nervous System.**—Hours and credits (maximum 4 s.h.) by arrangement. Prerequisite: Anatomy M201.

DR. HETHERINGTON

**M204. Human Embryology.**—Laboratory work, hours and credits (maximum 2 s.h.) by arrangement. Limited to eight students. Prerequisites: Zoology 41 and 191.

DR. SWETT AND STAFF

**M205. Regional Anatomy.**—Hours and credits (maximum 3 s.h.) by arrangement. Prerequisites: Anatomy M201 and M202.

DR. SWETT AND STAFF

#### BACTERIOLOGY AND IMMUNOLOGY

**M221. Bacteriology and Immunology.**—Prerequisites: courses in general zoology, general botany, histology and comparative anatomy, general and organic chemistry. 4 s.h.

DR. D. T. SMITH AND STAFF

**M323. Advanced Bacteriology and Immunology.—8 s.h.**

DR. D. T. SMITH AND STAFF

#### BIOCHEMISTRY

**M241. General Biochemistry.**—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry and at least one year of college biology. 6 s.h.

DR. PERLZWEIG, DR. TAYLOR, AND STAFF

**M242. Biochemical Preparations.**—Prerequisite: Biochemistry M241. Hours by arrangement. 2 s.h.

DR. TAYLOR AND STAFF

**M341. Pathological Chemistry.**—Prerequisites: Biochemistry M241 and Physiology M251-2.

DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

#### PHYSIOLOGY AND PHARMACOLOGY

**M261-2. Human Physiology and Pharmacology.**—Prerequisites: Anatomy M201 and Biochemistry M241 (or equivalents) and at least one year of college physics. Credits depending on work taken. (Maximum 8 s.h.)

DR. EADIE AND STAFF

**M263. Physiology of Digestion, Metabolism, and Nutrition.**—Prerequisite: Biochemistry M241. 2 s.h.

DRS. W. J. DANN, EADIE, AND F. M. BERNHEIM

**M361. Advanced Physiology.**—Prerequisites: Physiology M261 and M262. 1 s.h.

DR. EADIE AND STAFF



## FEES AND EXPENSES

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The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

### GENERAL FEES IN THE ACADEMIC YEAR

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage fee, payable annually at the time of first registration.....	1.00
Medical fee, per semester.....	5.00
Library fee, per semester.....	5.00
Commencement fee, payable once by graduate students in the last semester before a degree is conferred.....	3.00
Diploma fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00

For further information concerning room-rent, see below.

### SPECIAL FEES

Graduate students in the sciences are required to pay the special laboratory fees for courses as fixed by the various departments. An administrative fee is charged in connection with special research work in the summer under direction of a member of the Faculty.

### STUDENTS FROM THE UNIVERSITY OF NORTH CAROLINA GRADUATE SCHOOL

Regular students from the University of North Carolina Graduate School admitted to courses in the Duke University Graduate School pay a registration fee of \$2.00 and any laboratory or special course fees which are required of all students.

### PAYMENTS TO FELLOWS AND SCHOLARS

Payments by the University of stipends to fellows and scholars are made in four installments, on November 25, January 25, March 25, and May 25.



**ROOMS AND CONDITIONS OF RENTING THEM****ROOM-RENT FOR MEN OF DUKE UNIVERSITY**

West Campus, per semester.....	\$50.00, \$62.50, and \$75.00
East Campus, per semester.....	\$30.00 and \$50.00
All graduate courses are given on the West Campus.	

**ROOM-RENT IN WOMAN'S COLLEGE**

Single room, Aycock House, per semester, per student.....	\$75.00
Double room, Aycock House, per semester, per student.....	50.00

**ESTIMATED EXPENSES FOR AN ACADEMIC YEAR**

The necessary expenses of a graduate student are moderate. The University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum cost, while all charges made by the University have been kept low. Incidental expenses naturally depend upon the tastes and habits of the individual.

# THE SCHOOL OF LAW

1937-1938

ANNOUNCEMENTS FOR 1938-1939

MEMBER OF THE ASSOCIATION OF AMERICAN LAW SCHOOLS

APPROVED BY THE AMERICAN BAR ASSOCIATION

## UNIVERSITY CALENDAR

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### 1938

- Sept. 21. Wednesday—Registration of Law Students.  
Sept. 22. Thursday—Commencement of Instruction.  
Nov. 24. Thursday—Thanksgiving Day: a holiday.  
Dec. 10. Saturday—Duke University Day.  
Dec. 20. Tuesday—1:00 P.M. Christmas recess begins.

### 1939

- Jan. 3. Tuesday—8:00 A.M. Instruction is resumed.  
Jan. 20. Friday—Mid-year examinations begin.  
Jan. 31. Tuesday—Last day for matriculation for second semester.  
Feb. 1. Wednesday—Second semester begins.  
March 25. Saturday, 1:00 P.M.—Spring vacation begins.  
April 3. Monday, 8:00 A.M.—Instruction is resumed.  
May 23. Tuesday—Final examinations begin.  
June 3. Saturday—Commencement opens; Faculty breakfast for Law Seniors.  
June 4. Sunday—President's Address to Graduating Class.  
June 5. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

## OFFICERS OF ADMINISTRATION

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WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., Ed.D., LL.D.  
*President*

ROBERT LEE FLOWERS, A.M., LL.D.  
*Vice-President in the Business Division,  
Secretary and Treasurer*

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.  
*Vice-President in the Educational Division  
and Dean of the University*

FRANK CLYDE BROWN, A.B., A.M., Ph.D.  
*Comptroller*

H. CLAUDE HORACK, Ph.B., LL.B.  
*Dean of the School of Law*

HELEN MILDRED KENDALL, A.B.  
*Registrar of the School of Law*

### FACULTY COMMITTEES

*Committee on Curriculum:* H. C. Horack, Chairman, Bryan Bolich, John S. Bradway, Douglas B. Maggs, Malcolm McDermott, Elvin R. Latty.

*Committee on Graduate Study:* Lon L. Fuller, Chairman, Bryan Bolich, H. C. Horack, Douglas B. Maggs, Douglass Poteat.

*Committee on Rules:* Charles L. B. Lowndes, Chairman, Bryan Bolich, David F. Cavers, Paul Sanders.

*Committee on Scholarship:* Malcolm McDermott, Chairman, Lon L. Fuller, Douglass Poteat.

*Committee on Emergency Aids and Loans to Law Students:* John S. Bradway, Chairman, T. D. Bryson, Mary S. Covington, Lon L. Fuller, Elvin R. Latty

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### LAW SCHOOL COMMITTEE OF THE BOARD OF TRUSTEES

Willis Smith, Raleigh, North Carolina.  
James A. Bell, Charlotte, North Carolina.  
B. S. Womble, Winston-Salem, North Carolina.  
J. P. Frizzelle, Snow Hill, N. C.

# ORGANIZATION, EQUIPMENT, AND SPECIAL ACTIVITIES

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## HISTORY AND ORGANIZATION

Legal instruction in Trinity College dates from 1850, but it was not until 1868 that professional training in law was offered. The two chairs in the Department of Law were those of National and Constitutional Law, and Common and Statute Law. President Braxton Craven occupied the former from 1868 until his death in 1882. Outstanding members of the bench and bar were specially engaged, in given years, to lecture on particular subjects. Complete instruction was given "by daily lectures and regular examinations," and students were "fully prepared to obtain license."

In 1882 the Department of Law was discontinued. In 1891 instruction in law was resumed, with the appointment of the Honorable A. C. Avery, Associate Justice of the Supreme Court of North Carolina, as dean of the Law School, and continued until 1894.

The School of Law of Trinity College was founded in the summer of 1904 upon an endowment established by James B. Duke and Benjamin N. Duke. Samuel Fox Mordecai organized the School and was its dean until his death in 1927. Its establishment set a new standard in Southern legal education in that it was the first school to require college work as preliminary to law study. It required the completion of two years of college work as prerequisite to entrance, the case method was used as the basis of instruction, and the completion of three years of resident study was required for a law degree.

In 1924 the School of Law of Trinity College became the Duke University School of Law pursuant to the establishment of the Duke Endowment. In 1930 the School was moved into its new building, the Faculty and Library were greatly increased, and the activities of the School broadened. In 1931 the entrance requirement was raised from two to the present requirement of three years of college work. The School of Law is a member of the Association of American Law Schools and is on the "Approved List" of the American Bar Association.

## PURPOSES AND METHOD OF INSTRUCTION

The School of Law offers such courses in its curriculum as will provide an adequate preparation for the practice of law in any state. Through facilities for study and research, training is afforded for those desiring to specialize in particular branches of the law. In addition, several courses are offered for the benefit of students intending to practice in North Carolina.

To provide scope for creative work by the student, seminar courses and the courses in Current Decisions are offered. To achieve balance between intellectual discipline and that practical training which the young lawyer is otherwise left to obtain at the expense of his clients, courses and to familiarize him with a type of organization through which some year class participates in the work of the Legal Aid Clinic.

### THE LAW SCHOOL BUILDING

The Law Building, like all other structures on the main campus of Duke University, is in Tudor Gothic style of colorful Cambrian stone from the Duke University quarries. It was occupied by the School of Law for the first time in September, 1930. In it are classrooms, seminar rooms, offices for Faculty and Staff, quarters for the Legal Aid Clinic and for the Duke Bar Association, a courtroom equipped for trial court and appellate court sessions, and the Law Library.

### THE LAW LIBRARY

The Law Library contains a collection of almost sixty thousand volumes and is the largest law school library in the South. It consists of American and English statutory and case law; a collection of Continental Law materials; treatises, digests, encyclopedias; the various selected case series; a comprehensive collection of legal periodicals; and publications in the fields of history, economics, government, and the other social sciences, supplemental to the strictly legal materials. The Library receives every current legal periodical of general interest printed in the English language.

### THE LEGAL AID CLINIC

A Legal Aid Clinic was organized at the School of Law in 1931 under the direction of Professor John S. Bradway, Secretary of the National Association of Legal Aid Organizations, who had directed similar undertakings in Philadelphia and Los Angeles. The purpose of the Clinic is threefold: to give the student experience in handling actual cases; to develop creative skills, techniques and mental habits; to encourage a sense of responsibility to client, court, profession and community.

### THE PRACTICE COURSE

The practice course in the School of Law is under the direction of Judge T. D. Bryson, for eight years Judge of the Superior Court of the Twentieth Judicial District of North Carolina. The object of the course is to offer third-year students an opportunity to visualize by actual experience the application of the principles of law imparted in other courses.



## LEGAL PERIODICALS

The School of Law publishes a quarterly, *Law and Contemporary Problems*, under the editorship of Professor Cavers. This periodical, now in its fifth volume, presents in each issue a symposium on a problem of current legal importance, in which the interrelated social and economic, as well as legal, factors are discussed by writers of competence in these respective fields. Where student research may contribute to the understanding of the legal aspects of such problems, student writings are accepted for publication. The topics discussed in the first four volumes of *Law and Contemporary Problems* include food and drug control, low-cost housing, agricultural readjustment in the South, federal criminal laws, industrial and group-life insurance, instalment selling, migratory divorce, expert testimony, social security legislation, real property tax collection, the compensation of the motor accident victim, the Securities Act of 1933, price discrimination and price cutting, and farm tenancy legislation.

*Law and Contemporary Problems* has met with an encouraging response in its first four years. The continuing, nation-wide demand for its issues has already necessitated second printings of eight issues and a third printing of two. In addition to lawyers and law libraries, it counts many interested laymen and public and general university libraries among its subscribers. Issues have been frequently and favorably reviewed, and articles reprinted in other journals. It has been used as a source of material for university classroom study in several schools. The Social Security Board has ordered over fifteen hundred copies of the social security and industrial life insurance issues for use by its staff and in its personnel training courses.

The Duke Bar Association has published since 1933 the *Duke Bar Association Journal* in which appear reports of addresses made before the Association by distinguished guests, proceedings of the Association at its regular meetings, and items of interest concerning the School. To afford a medium for the publication of the student notes and comments on recent important decisions prepared in the Current Decisions course without necessitating the inclusion in the quarterly of the department of student work usual in "law reviews," the *Journal* publishes such notes and comments as are deemed by the editors to be of special merit. Professor Cavers serves as adviser to the student editorial board of the *Journal*.

## THE DUKE BAR ASSOCIATION

The Duke Bar Association was established in the spring of 1931. It is composed of all the students of the Law School and is organized along the lines of the American Bar Association. Its purpose is to introduce the student to the problems considered by the bar in professional organizations and to develop professional consciousness and responsibility. It publishes the *Duke Bar Association Journal*, described in the preceding section. Its activities are carried on by the students with the co-operation of Dean Horack of the Law Faculty as general adviser.

## GENERAL INFORMATION

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### MATRICULATION, REGISTRATION, AND ENROLLMENT

On the day of registration, September 21, 1938, the applicant must obtain from the Dean of the Law School an admission card, indicating that he is entitled to register. Registration is conducted in the Law Building. All students, both old and new, are required to register at the beginning of each semester, at which time class schedule and course cards must be filled out and approved. Students matriculating in either semester at a date later than that prescribed in this catalogue shall pay to the Treasurer a penalty of \$5.00 for late registration. Instruction will begin in all classes on Thursday, September 22, 1938.

### FEES AND EXPENSES

Tuition and registration fees are due at the beginning of each semester. The matriculation fee is \$25.00 a semester. The tuition fee is \$100.00 a semester. A damage fee of \$1.00 is collected at the beginning of the first semester only, an athletic fee of \$5.00 at the beginning of each semester, a library fee of \$5.00 each semester, and a medical fee of \$5.00 each semester.

### SCHOLARSHIPS AND STUDENT AIDS

A limited number of scholarships covering tuition and matriculation fees (\$250) are available to first-year students, graduates of approved American universities and colleges, who are in need of such assistance. Applicants must have made excellent records in their college work and must show unusual promise of success in the study of law.

Applications for scholarships should be presented before May 1 to the Dean of the Law School, together with a transcript of college work and letters of recommendation from responsible persons, certifying to the character and fitness of the applicant.

### AWARDS

*Willis Smith Prize.* Mr. Willis Smith, a member of the Raleigh bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of law school work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose. The winner of the prize for 1932 was Jeter S. Ray, Newport, Tenn.; for 1933, William B. McGuire, Jr., Franklin, N. C.; for 1934, Robert Gilpin

Seaks, Harrisburg, Pa.; for 1935, Erle Pettus, Jr., Birmingham, Ala.; for 1936, Edward Rubin, Los Angeles, Calif.; and for 1937, William R. Perdue, Jr., Macon, Ga.

#### ORDER OF THE COIF

A chapter of the Order of the Coif, national legal scholarship society, has been established at Duke University School of Law. Its purpose is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." Election is restricted to the 10 per cent of the Senior Class who have attained the highest rank in their law school work. Those receiving this honor in the graduating class of 1937 were Lyman H. Brownfield, Columbus, O.; Richard M. Nixon, Whittier, Calif.; and William R. Perdue, Jr., Macon, Ga.

## ADMISSION OF STUDENTS

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### REQUIREMENTS FOR ADMISSION

Any person may be admitted as a candidate for the degree of Bachelor of Laws (1) who is a graduate of a college of approved standing, or (2) who has completed in a college of approved standing work equivalent in number of units to three-fourths of that required for graduation and whose college work in its entirety shows an average grade equal to that required for graduation (the requirement in each case being determined by the regulations of the college where the work was taken).

### COMBINED COURSE

A number of colleges, upon application by their students, have permitted those who have completed three years of undergraduate work, to enter the Law School of Duke University and upon the satisfactory completion of the first year of law school work to receive their Bachelor of Arts degrees from such colleges. It is suggested that students desiring to enter Duke University School of Law, make inquiry of their proper college authorities regarding this point.

A student in either of the Liberal Arts Colleges of Duke University may complete in six years a combined course wherein he will have received his academic degree and also the degree of Bachelor of Laws. This arrangement is made possible under the following recommendations of the Faculty of the Arts Colleges:

Students who have completed with not less than a "C" average at least ninety-six semester-hours of undergraduate work in the pre-legal group of studies in Duke University may on the approval of the Dean of the Undergraduate College transfer to this Law School and become eligible for the Bachelor's degree on the satisfactory completion of the full twenty-six semester-hours of work of the first-year class in this School.

It is understood that this provision shall apply solely to eligible Duke University undergraduates, and that not less than the full first-year's work of the Law School will be acceptable for credit towards the Bachelor's degree.

It should be noted that while the Combined Course plan of securing two degrees is restricted to those who have taken the "pre-legal course," general admission to the Law School is not so restricted.

### ADMISSION TO ADVANCED STANDING

Any person, who has complied with the requirements for admission set forth in this announcement, prior to the commencement of his law study, who shall present evidence of the satisfactory completion of any part of the curriculum of the Law School at any law school which is a member of the Association of American Law Schools, and who is eligible

for readmission to the law school from which he proposes to transfer, may be admitted to advanced standing, subject to such rules as would be applicable to students in this School having a comparable scholastic record. Provisional credit for courses so completed shall be given, final credit for such work to be conditioned on the completion of at least one full year of law study in this School with an average of at least five points above the passing grade. Adjustment of credit for work done in such other law schools may be by vote of the Faculty.

#### **CANDIDATES FOR GRADUATE DEGREES**

Applications for admission to graduate study should be addressed to the Dean of the Law School and should include transcripts of records of legal and pre-legal work.

## REQUIREMENTS FOR BACHELOR OF LAWS DEGREE—STUDENT PROGRAMS

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### BACHELOR OF LAWS DEGREE

Upon favorable recommendation of the Faculty, the degree of Bachelor of Laws will be conferred on students who shall have successfully completed three years' study of law, the last full year of work immediately preceding the granting of such degree having been completed, except under extraordinary circumstances, in this School.

A student shall be deemed to have completed successfully three years' study of law if during this period he has

(1) secured a passing grade in courses aggregating the number of semester-hours in the first-year program of study plus forty-eight semester-hours;

(2) secured in every required course a grade not requiring repetition thereof; and

(3) secured an average grade at least five points above passing in all work taken other than first-year courses, or, if such grade is lower than that above specified, an average grade of five points above passing in all work taken.

Students who shall have spent only their third year of study in residence in this School must have received an average grade at least five points above passing for that year.

### THE FIRST-YEAR PROGRAM

All of the first-year courses are required for graduation, and no second- or third-year courses may be elected until the student has secured grades not requiring repetition of any first-year courses or has made provision for the completion thereof.

The following courses comprise the work of the first year:

<i>Subject</i>	<i>Hours per semester</i>	
Chattel Transactions .....	2	2
Contracts .....	3	3
Criminal Law and its Administration .....	2	2
Torts .....	3	2
Introduction to Procedure .....	2	
Legal Bibliography .....	1	
Orientation .....		
Agency .....		2
Possessory Estates .....		2
	13	13



## SECOND- AND THIRD-YEAR PROGRAMS

The course in Research and Briefing is required of those second-year students who have not been selected to take the course in Current Decisions I. The course in Legal Aid Clinic is required of those third-year students who have not been selected to take the course in Current Decisions II. The course in Legal Ethics is required of all third-year students. For descriptions of the content of these courses, see pages 26-32.

With the exceptions noted above, all courses offered for the second and third years are elective. For the guidance of second-year students in 1938-39, the Faculty recommends the inclusion of the following courses in their programs of study:

<i>Subject</i>	<i>Hours per semester</i>	
Constitutional Law .....	2	3
Equity .....	2	2
Pleading (Prerequisite to Practice) .....	2	1
Research and Briefing .....	1	1
Bills and Notes .....	3	
Conveyancing .....	3	
Business Associations I .....		3
Credit Transactions .....		4
Trusts .....		3
	15	15

For the student who wishes to take in his second year, courses other than those listed above, the following are suggested as suitable for study in the second year:

<i>Subject</i>	<i>Hours per semester</i>
Criminal Procedure .....	2
Family Law .....	2
Landlord and Tenant .....	2
Municipal Corporations .....	2
Future Interests .....	3
Wills and Administration of Estates .....	3

It should be distinctly understood that the courses in this second list are not suggested as either more or less suitable for study in the third year than those not included therein. In the selection of courses in addition to or in substitution for those recommended above, the student should consult the course groupings appearing at another place in this bulletin, so that he may choose those courses which will contribute most directly to his work in the field of study to which he wishes to devote his major efforts in the third year. The student intending to enter the general practice of law is cautioned, however, not to sacrifice, through undue concentration, the acquisition of a broad foundation for his subsequent activities.

The courses offered which are not included in the above lists comprise:

<i>Subject</i>	<i>Hours per semester</i>	
Evidence .....	2	2
Practice .....	2	2
Taxation .....	2	2
Administrative Law .....	2	
Business Associations II .....	3	
Conflict of Laws .....	3	
Debtors' Estates .....	3	
Insurance .....	2	
Legal History .....	3	
Legislation .....	2	
Readings in Jurisprudence .....	2	
Damages .....		2
Family Law Seminar .....		2
Federal Jurisdiction and Procedure .....		2
Labor Law .....		2
Legislation Seminar .....		2
North Carolina Statutes .....		2
Regulation of Business .....		3
Roman Law: Comparative Law of Obligation .....		2
Seminar in Legal History .....		2

# **GRADUATE WORK IN LAW**

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## **GRADUATE DEGREES**

The School of Law confers two graduate degrees, the degree of Master of Laws (LL.M.) and the degree of Doctor of Juridical Science (S.J.D.).

### **REQUIREMENTS FOR ADMISSION TO GRADUATE STUDY**

Any person who shall have received the first degree in law from a law school qualified for membership in the Association of American Law Schools and whose college course and law course combined shall have occupied at least six years, may be admitted as a candidate for the degree of Master of Laws. In exceptional cases an applicant who does not meet all the above requirements may be admitted, on vote of the Faculty, to candidacy for this degree where he is able to demonstrate that he is specially qualified, as by reason of practice or teaching.

Any person holding the degree of Master of Laws from this or any other law school which is qualified for membership in the Association of American Law Schools may be admitted by the Faculty to candidacy for the degree of Doctor of Juridical Science provided he completed the work for the Master's degree with distinction.

### **THE DEGREE OF MASTER OF LAWS**

Upon favorable recommendation of the Faculty, the degree of Master of Laws will be conferred on students who have successfully completed during a period of residence at this School totaling at least one year a course of study approved by the Committee on Graduate Study.

The courses of study leading to this degree are designed to provide for the needs of two classes of students: (1) graduates of approved law schools who desire a fourth year of study for the purpose of undertaking an intensive study of some specialty, or who desire to broaden their legal education through the study of such subjects as jurisprudence and legal history; (2) graduates of approved law schools who desire to teach law or engage in legal research and who intend to become candidates for the degree of Doctor of Juridical Science.

One year of resident study is required for the degree of Master of Laws. No thesis is required. The course of study is prescribed by the Committee on Graduate Study after consultation with the individual student. Opportunity will be afforded the student to include in his program such second- and third-year law courses, not already completed, as are desirable for the rounding out or supplementing of his previous training. In some cases, courses in other departments of the University may be included. In the case of students whose interests lie in further preparation for practice, the course will normally include registration in subjects

totaling twelve hours each semester. In the case of students interested primarily in legal research, a lighter schedule, so far as enrollment in formal courses is concerned, may be arranged. In cases where less than twelve hours' work is prescribed for either semester, the Committee on Graduate Study may require that the student complete the work undertaken with a grade considerably higher than that required of candidates for the first degree in law.

#### THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE

Upon favorable recommendation of the Faculty, the degree of Doctor of Juridical Science will be conferred on students admitted to candidacy for that degree who complete and submit a monograph or series of essays suitable for publication and deemed by the Faculty to be of distinguished character. At least one academic year must elapse between the awarding of the Master's degree and the awarding of the degree of Doctor of Juridical Science. Students who have received the degree of Master of Laws from another law school must spend at least one year engaged in research at this School and may in addition be required to complete a course of study prescribed by the Committee on Graduate Study.

## COURSES OFFERED

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*(This is a condensed description of courses. For a full description, see Bulletin of the School of Law.)*

### 1. GENERAL COURSES

**Orientation.** Nine lectures by members of the Faculty, first four weeks, first semester.

**Torts.** Three hours a week, first semester; two hours, second semester.  
PROFESSOR MAGGS

**Equity.** Two hours a week throughout the year. PROFESSOR HORACK

**Trusts.** Scott, *Cases on Trusts* (2d ed.). Three hours a week, second semester.  
PROFESSOR LOWNDES

**Conflict of Laws.** Three hours a week, first semester. PROFESSOR CAVERS

**Damages.** Two hours a week, second semester. PROFESSOR FULLER

**Family Law.** Two hours a week, first semester. PROFESSOR BRADWAY

**Family Law Seminar.** Family Law is prerequisite. Two hours a week, second semester.  
PROFESSOR BRADWAY

**North Carolina Statutes.** Two hours a week, second semester.  
PROFESSOR BRYSON

### 2. BUSINESS COURSES

**Contracts.** Three hours a week throughout the year. PROFESSOR FULLER

**Chattel Transactions.** Two hours a week throughout the year.  
PROFESSOR LATTY

**Agency.** Two hours a week, second semester. PROFESSOR LOWNDES

**Bills and Notes.** Three hours a week, first semester. PROFESSOR LOWNDES

**Business Associations I.** Three hours a week, second semester.  
PROFESSOR LATTY

**Business Associations II—Finance.** Three hours a week, first semester.  
PROFESSOR LATTY

**Credit Transactions.** Four hours a week, second semester.  
PROFESSOR POTEAT

**Debtors' Estates.** Three hours a week, first semester. PROFESSOR POTEAT

**Insurance.** Two hours a week, first semester.  
ASSISTANT PROFESSOR SANDERS

**Public Utilities.** Three hours a week, first semester.  
[Not to be given, 1938-39.]

**Regulation of Business.** Three hours a week, second semester.  
PROFESSOR CAVERS

**3. PROPERTY COURSES**

**Possessory Estates.** Two hours a week, second semester. PROFESSOR BOLICH

**Conveyancing.** Three hours a week, first semester. PROFESSOR BOLICH

**Landlord and Tenant.** Two hours a week, first semester. PROFESSOR BOLICH

**Future Interests.** Three hours a week, second semester. PROFESSOR BOLICH

**Wills and Administration of Estates.** Three hours a week, second semester. PROFESSOR McDERMOTT

**Trusts.** Three hours a week, second semester. PROFESSOR LOWNDES

**4. PUBLIC LAW COURSES**

**Criminal Law and Its Administration.** Two hours a week throughout the year. ASSISTANT PROFESSOR SANDERS

**Criminal Procedure.** Two hours a week, first semester. PROFESSOR BRYSON

**Constitutional Law.** Two hours a week, first semester; three hours, second semester. PROFESSOR MAGGS

**Administrative Law.** Two hours a week, first semester. PROFESSOR MAGGS

**Labor Law.** Two hours a week, second semester. ASSISTANT PROFESSOR SANDERS

**Legislation.** Two hours a week, first semester. PROFESSOR McDERMOTT

**Legislation Seminar.** Legislation is prerequisite. Selected materials. Two hours a week, second semester. PROFESSOR McDERMOTT

**Municipal Corporations.** Two hours a week, first semester. PROFESSOR McDERMOTT

**Public Utilities.** Three hours a week, first semester.  
[Not to be given, 1938-39.]

**Regulation of Business.** Three hours a week, second semester. PROFESSOR CAVERS

**Taxation.** Two hours a week throughout the year. PROFESSOR LOWNDES

**5. JURISPRUDENCE COURSES**

**Readings in Jurisprudence.** Two credit hours. A one-hour discussion meeting will be held each week. First semester. PROFESSOR FULLER

**Legal History.** Three credit hours. First semester. PROFESSOR BOLICH

**Seminar in Legal History.** Hours and credit to be arranged with the instructor upon approval of Committee. PROFESSOR BOLICH

**Roman Law: Comparative Law of Obligations.** Two hours a week, second semester. PROFESSOR FULLER



## 6. PROCEDURE AND PRACTICE COURSES

**Introduction to Procedure.** Two hours a week, first semester.

PROFESSOR POTEAT

**Pleading.** Two hours a week, first semester; one hour a week, second semester.

PROFESSOR BRYSON

**Practice.** Two hours a week throughout the year.

PROFESSOR BRYSON

**Evidence.** Two hours a week throughout the year.

PROFESSOR McDERMOTT

**Criminal Procedure.** Two hours a week, first semester.

PROFESSOR BRYSON

**Federal Jurisdiction and Procedure.** Two hours a week, second semester.

PROFESSOR POTEAT

**Legal Ethics.** Required of all third-year students. One hour a week, first semester.

PROFESSOR BRADWAY

**Legal Aid Clinic.** Required of all third-year students except those selected for Current Decisions II. Two hours a week throughout the year.

PROFESSOR BRADWAY

**Bar Association Activities.** Not for credit.

PROFESSOR HORACK

## 7. LEGAL RESEARCH AND WRITING

**Legal Bibliography.** One hour a week, first semester.

MR. ROALFE

**Research and Briefing.** Required of all second-year students except those selected for Current Decisions I. Selected materials. One hour throughout the year, in two sections.

PROFESSOR LATTY

**Current Decisions I.** Required of superior second-year students declared eligible by the Faculty. One hour throughout the year.

PROFESSOR CAVERS AND THE STAFF

**Current Decisions II.** Required of superior third-year students declared eligible by the Faculty. One hour throughout the year.

PROFESSOR CAVERS AND THE STAFF

**Student Editorial Work.** Credit for this work will be given in Current Decisions.

PROFESSOR CAVERS

# THE SCHOOL OF MEDICINE

1937-1938

ANNOUNCEMENTS FOR 1938-1939

## SCHOOL OF MEDICINE CALENDAR, 1938-1939

1938

- Jan. 3. Monday—Registration of students, and Winter Quarter begins.  
March 19. Saturday—Winter Quarter ends.  
March 28. Monday—Registration of students, and Spring Quarter begins.  
June 6. Monday—Commencement.  
June 11. Saturday—Spring Quarter ends.  
June 20. Monday—Registration of students, and Summer Quarter begins  
(Junior-Senior students).  
July 4. Monday—Independence Day: a holiday.  
Sept. 3. Saturday—Summer Quarter ends.  
Sept. 29. Thursday—Registration of students, and Autumn Quarter  
begins.  
Nov. 24-27. Thursday-Sunday—Thanksgiving Holidays.  
Dec. 17. Saturday—Autumn Quarter ends.

1939

- Jan. 2. Monday—Registration of students, and Winter Quarter begins.  
March 18. Saturday—Winter Quarter ends.  
March 27. Monday—Registration of students, and Spring Quarter begins.  
June 5. Monday—Commencement.  
June 10. Saturday—Spring Quarter ends.  
June 19. Monday—Registration of students, and Summer Quarter begins  
(Junior-Senior students).  
July 4. Tuesday—Independence Day: a holiday.  
Sept. 2. Saturday—Summer Quarter ends.  
Sept. 28. Thursday—Registration of students, and Autumn Quarter  
begins.  
Nov. 30-Dec. 3. Thursday-Sunday—Thanksgiving Holidays.  
Dec. 16. Saturday—Autumn Quarter ends.

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The Treasurer's Office is on the third floor of the Administration Building on the West Campus, and is open daily, except Sunday, from 9 A.M. to 4:30 P.M.

The office of the Recorder and Dean of the School of Medicine is in Room M 133 of the Medical School, and is open daily, except Sunday, from 8:15 A.M. to 5 P.M.

For any further information, address THE DEAN, DUKE UNIVERSITY SCHOOL OF MEDICINE, DURHAM, N. C.

## OFFICERS OF ADMINISTRATION

---

WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., LL.D.  
*President of the University*

ROBERT LEE FLOWERS, A.M., LL.D.  
*Vice-President, Secretary, and Treasurer*

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.  
*Vice-President*

FRANK CLYDE BROWN, A.B., A.M., Ph.D.  
*Comptroller*

CHARLES BLACKWELL MARKHAM, A.B., A.M.  
*Assistant Treasurer*

---

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D.  
*Dean of the School of Medicine*

HELEN I. STOCKSDALE  
*Recorder of the School of Medicine*

## STAFF OF DUKE HOSPITAL

### Administrative Committee

F. V. ALTVATER  
BESSIE BAKER  
BAYARD CARTER

W. C. DAVISON  
DERYL HART  
F. M. HANES

ELSIE W. MARTIN  
F. R. PORTER  
D. T. SMITH

### Administrative and Technical Staff

FREDERICK VERNON ALTVATER, A.B., A.M., *Superintendent*.  
F. ROSS PORTER, A.B., *Assistant Superintendent*.  
HAROLD CHANDLER MICKEY, B.B.A., *Assistant Superintendent*.  
BESSIE BAKER, R.N., B.S., *Dean of School of Nursing*.  
ELSIE WILSON MARTIN, A.B., M.S., *Professor of Dietetics*.  
JASPER EUGENE MORGAN, B.S., M.S., Ph.D., *Physicist*.  
I. THOMAS REAMER, Ph.G., *Pharmacist*.  
REBA NEW HOBGOOD, *Public Dispensary*.  
JUDITH FARRAR, A.B., B.S., *Librarian*.  
MARY HOEN MULLER, R.N., *Anesthetist*.  
PERRY GIBSON, A.B., B.S.M., *Social Service*.  
JESSIE HARNED, *Record Librarian*.  
ELON HENRY CLARK, *Artist*.  
HENRY FLOYD PICKETT, A.B., *Photographer*.  
CHRISTIAN ADOLPH LETZING, *Braces and Instruments*.

### Hospital and Public Dispensary Teaching Staff

#### Chiefs of Services

EDWIN PASCAL ALYEA, S.B., M.D., *Urology*.  
WILLIAM BANKS ANDERSON, A.B., M.D., *Ophthalmology*.  
BAYARD CARTER, A.B., B.A., M.A., M.D., *Obstetrics and Gynecology*.  
RAYMOND S. CRISPELL, A.B., M.D., *Neuropsychiatry*.  
WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D., *Pediatrics*.  
WATT WEEMS EAGLE, A.B., M.D., *Otolaryngology*.  
WILEY DAVIS FORBUS, A.B., M.D., *Pathology*.  
FREDERIC MOIR HANES, A.B., A.M., M.D., *Medicine*.  
DERYL HART, A.B., M.A., M.D., *Surgery*.  
THEODORE W. ATWOOD, A.B., D.M.D., *Dentistry*.  
WILLIAM ALEXANDRE PERLZWEIG, B.S., A.M., Ph.D., *Biochemistry*.  
ROBERT JAMES REEVES, A.B., M.D., *Roentgenology*.  
\*ALFRED RIVES SHANDS, JR., B.A., M.D., *Orthopedics*.  
DAVID TILLERSON SMITH, A.B., M.D., *Bacteriology*.

#### Associate Staff

JASPER LAMAR CALLAWAY, B.S., M.D., *Dermatology and Syphilology*.  
NORMAN FRANCIS CONANT, B.S., A.M., Ph.D., *Mycology*.  
ERLE BULLA CRAVEN, JR., A.B., M.D., *Medicine*.  
MACDONALD DICK, A.B., M.A., M.D., *Medicine*.  
SNOWDEN COWMAN HALL, A.B., M.D., *Medicine*.  
OSCAR CARL EDVARD HANSEN-PRÜSS, A.B., M.D., *Medicine*.  
CHRISTOPHER JOHNSTON, A.B., M.D., *Medicine*.  
THOMAS T. JONES, A.B., M.D., *Medicine*.  
WALTER KEMPNER, M.D., *Medicine*.  
DONALD STOVER MARTIN, A.B., M.D., *Medicine and Bacteriology*.

\* On leave 1937-38.

ROBERT LINDSAY McMILLAN, B.S., M.D., *Medicine*.  
 WILLIAM McNEAL NICHOLSON, A.B., M.D., *Medicine*.  
 EDWARD STEWART ORGAIN, M.D., *Medicine*.  
 ELBERT LAPSLEY PERSONS, A.B., M.D., *Medicine and Dermatology*.  
 JULIAN MEADE RUFFIN, A.B., M.A., M.D., *Medicine*.  
 DAVID TILLERSON SMITH, A.B., M.D., *Medicine*.  
 O. NORRIS SMITH, B.A., M.D., *Medicine*.  
 ROBERT WILLIAMS GRAVES, B.S., M.A., M.D., *Neurology*.  
 JOSEPH W. BEARD, B.S., M.D., *Surgery*.  
 HAROLD FINKELSTEIN, B.S., M.D., *Surgery*.  
 CLARENCE ELLSWORTH GARDNER, JR., A.B., M.D., *Surgery*.  
 ROBERT RANDOLPH JONES, JR., A.B., M.D., *Surgery*.  
 BARNES WOODHALL, A.B., M.D., *Neuro-surgery*.  
 LENOX DIAL BAKER, M.D., *Orthopedics*.  
 ROBERT BEVERLY RANEY, A.B., M.D., *Orthopedics*.  
 GEORGE BURTON FERGUSON, M.S., M.D., *Bronchoscopy*.  
 EDWIN CROWELL HAMBLIN, B.S., M.D., *Obstetrics and Gynecology*.  
 ROBERT ALEXANDER ROSS, B.S., M.D., *Obstetrics and Gynecology*.  
 ANNIE THOMPSON SMITH, A.B., A.M., M.D., *Obstetrics and Gynecology*.  
 WALTER LEE THOMAS, JR., A.B., M.A., M.D., *Obstetrics and Gynecology*.  
 JAY MORRIS ARENA, B.S., M.D., *Pediatrics*.  
 ANGUS MCBRYDE, B.S., M.D., *Pediatrics*.  
 ARTHUR HILL LONDON, JR., A.B., M.D., *Pediatrics*.  
 JEROME SYLVAN HARRIS, A.B., M.D., *Pediatrics*.  
 WALTER WEDDLE VAUGHAN, A.B., M.D., *Roentgenology*.  
 ROGER DENIO BAKER, A.B., M.D., *Pathology*.  
 CYRUS CONRAD ERICKSON, B.S., B.M., M.D., *Pathology*.  
 DOUGLAS HAMILTON SPRUNT, B.S., M.S., M.D., *Pathology*.  
 HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D., *Toxicology*.  
 ANNE YATES, A.B., A.M., Ph.D., *Biochemistry*.

### Resident Staff

#### Residents

RICHARD ZIMRI QUERY, JR., B.S., Davidson, 1929; M.D., 1934; *Medicine*.  
 RICHARD VAN FLETCHER, B.S., Georgia, 1929; M.D., Johns Hopkins, 1933;  
*Surgery*.  
 GEORGE W. JOYNER, B.S., Wake Forest, 1930; M.D., Duke, 1932; *Surgery*.  
 GLENN EMORY STAYER, A.B., Columbia, 1931; M.D., Duke, 1934; *Otolaryngol-  
 ogy and Ophthalmology*.  
 EDWARD CHARLES HOLSCHER, A.B. and B.S., Missouri, 1933; M.D., Harvard,  
 1935; *Orthopedics*.  
 JULIAN ERICH JACOBS, M.D., Nebraska, 1935; *Orthopedics*.  
 WALTER EUGENE DANIEL, B.A., Wake Forest, 1927; M.D., Virginia, 1931;  
*Urology*.  
 RICHARD LEHMER PEARSE, A.B., Duke, 1927; M.D., Harvard, 1931; *Obstetrics  
 and Gynecology*.  
 LESTER PAUL RASMUSSEN, B.A., Utah, 1932; M.D., Duke, 1935; *Pediatrics*.  
 EDWARD K. HARRISON, A.B., Columbia, 1928; M.D., Columbia (P. & S.), 1932;  
*Roentgenology*.

#### Assistant Residents

RAYMOND DELACY ADAMS, B.A. and M.A., Oregon, 1932 and 1933; M.D.,  
 Duke, 1936; *Medicine*.  
 ELIZA CALDWELL, A.B., Centre, 1932; M.D., Vanderbilt, 1936; *Medicine*.  
 JULIA MARY JONES, B.A., Ohio State, 1930; M.D., Duke, 1935; *Medicine*.  
 ISAAC HALL MANNING, A.B., North Carolina, 1931; M.D., Harvard, 1935;  
*Medicine (on leave)*.  
 WILLIAM SCHULZE, B.S., Richmond, 1932; M.D., Duke, 1936; *Medicine*.



- ROBERT WILLIAMS, A.B., Duke, 1931; M.D., Pennsylvania, 1935; *Medicine*.  
 NANCY BOWMAN WISE, A.B., Mt. Holyoke, 1932; M.D., Yale, 1937; *Medicine*.  
 WILLIAM HENRY BRIDGERS, B.S. and M.D., Duke, 1936; *Surgery (Experimental Surgery and Pathology)*.  
 JOHN WILLIAM DEVINE, JR., B.S. and M.D., Duke, 1934 and 1935; *Surgery*.  
 HENRY STOKES MUNROE, JR., B.S., Davidson, 1931; M.D., Duke, 1935; *Surgery*.  
 LOUIS CARROLL ROBERTS, A.B., Davidson, 1930; M.D., Duke, 1933; *Surgery*.  
 HERMAN MAX SCHIEBEL, A.B. and M.D., Johns Hopkins, 1929 and 1935; *Surgery*.  
 WILL CAMP SEALY, B.S. and M.D., Emory, 1933 and 1936; *Surgery (Experimental Surgery and Pathology)*.  
 SAMUEL EARLE UPCHURCH, B.A. and M.D., Vanderbilt, 1929 and 1933; *Surgery*.  
 WILLIAM DEMPSEY FARMER, A.B. and M.D., Duke, 1930 and 1934; *Otolaryngology*.  
 CLARENCE KENDALL FRASER, Ph.B., Holy Cross, 1931; M.D., Tufts, 1935; *Obstetrics and Gynecology*.  
 JOHN WALTER JONES, A.B., 1928, and B.S. and M.A., Missouri, 1931; M.D., Washington, 1933; *Obstetrics and Gynecology*.  
 EDWIN MACRAE RUCKER, A.B., Randolph-Macon, 1927; M.D., Duke, 1934; *Obstetrics and Gynecology*.  
 GIFFORD DE ALTON SEITZ, B.A. and M.D., Oregon, 1928 and 1932; *Obstetrics and Gynecology*.  
 ERNEST GEORGE REUTER, A.B., Reed, 1926; M.D., Oregon, 1933; *Roentgenology*.  
 E. LLOYD WILBUR (Acting Resident), M.D., Nebraska, 1934; *Pathology*.

#### Internes

- HAROLD IRA HARVEY, A.B., Harvard, 1924; M.D., Duke, 1937; *Medicine*.  
 WILLIAM HENRY KAUFMAN, B.A., Johns Hopkins, 1934; M.D., Duke, 1937; *Medicine*.  
 VINCE MOSELEY, A.B. and M.D., Duke, 1933 and 1936; *Medicine*.  
 RAY O. NOOJIN, A.B., Alabama, 1933; M.D., Chicago, 1937; *Medicine*.  
 CARLTON LEE OULD, A.B. and M.D., Duke, 1931 and 1937; *Medicine*.  
 RAYMOND WOODROW POSTLETHWAITE, B.S., West Virginia, 1935; M.D., Duke, 1937; *Medicine*.  
 JOSEPH BLACKBURN STEVENS, B.S., Davidson, 1932; M.D., Duke, 1935; *Medicine*.  
 JAMES DACOSTA BRAMER, B.A., Colgate, 1931; M.D., Rochester, 1935; *Surgery*.  
 EVERETT IRVING BUGG, JR., B.S., Duke, 1935; M.D., Johns Hopkins, 1937; *Surgery*.  
 CYRUS LEIGHTON GRAY, JR., B.S., High Point, 1933; M.D., Duke, 1937; *Surgery*.  
 DURWARD LEE LOVELL, M.D., Duke, 1936; *Surgery*.  
 WILLIAM METCALF, B.S. and M.S., Massachusetts Institute of Technology, 1931; M.D., Johns Hopkins, 1937; *Surgery*.  
 WILLIAM HENRY PETTUS, JR., B.S., Richmond, 1933; M.D., Cornell, 1937; *Surgery*.  
 EMMERT CHRISTOPHER STUART, JR., M.D., McGill, 1934; *Surgery*.  
 RALPH A. ARNOLD, B.A., Rochester, 1932; M.D., Buffalo, 1936; *Otolaryngology*.  
 KERMIT WENDELL COVELL, B.S. and M.D., Indiana, 1933 and 1935; *Otolaryngology*.  
 MILO FRITZ, A.B. and M.D., Columbia, 1931 and 1934; *Otolaryngology*.  
 DANA MORRIS STREET, B.S., Haverford, 1932; M.D., Cornell, 1936; *Orthopedics*.  
 SIDNEY FEYDER, A.B., M.S. and M.D., Rochester, 1932, 1934 and 1936; *Urology*.  
 TROGLER FRANCIS ADKINS, M.D., Duke, 1936; *Obstetrics and Gynecology*.  
 ELEANOR BEAMER EASLEY, B.A., Idaho, 1928; M.A., Iowa, 1929; M.D., Duke, 1934; *Obstetrics and Gynecology*.  
 MARGARET VIRGINIA BURNS, M.D., Duke, 1937; *Pediatrics*.  
 WILLIAM HOEHNE GAULT, Ph.B., M.D., Yale, 1931 and 1936; *Pediatrics*.

JEAN M. MARTIN, B.S., State Teachers, Harrisonburg, Va.; M.D., Virginia, 1936; *Pediatrics*.

HENRY GEORGE MORTON, B.S. and M.D., Duke, 1936 and 1937; *Pediatrics*.

CHARLES DICK ROLLINS, B.S., North Carolina, 1933; M.D., Pennsylvania, 1935; *Pediatrics*.

BURTON MICHAEL SHINNERS, B.S., Notre Dame, 1933; M.D., Duke, 1936; *Pediatrics*.

GEORGE ADDISON SILVER, M.D., Duke, 1937; *Pediatrics*.

LESLIE VAN DYKE DILL, B.S. and M.D., Duke, 1936; *Pathology*.

GEORGE THOMAS HARRELL, JR., B.A. and M.D., Duke, 1932 and 1936; *Pathology*.

PHILIP BROWER PARSONS, B.S. and M.D., Duke, 1935 and 1936; *Pathology*.

JACOB HIMI KRESS, B.S., High Point, 1928; M.D., Med. Coll. of Virginia, 1936; *Student Health Service*.

PELAGIUS M. WILLIAMS, M.D., Oregon, 1937; *Private Diagnostic Clinic*.

WILLIAM ALPHONSO WITHERS, A.B., North Carolina, 1932; M.D., Rush, 1936; *Private Diagnostic Clinic*.

NORMAN F. ROSS, D.D.S., Temple, 1937; *Dentistry*.

JAMES M. DANIEL, A.B., Duke, 1936; *Administration*.

HORACE EMERSON HAMILTON, B.S., North Carolina, 1937; *Administration*.

DEWITT WRIGHT, B.S. and J.D., Northwestern, 1923 and 1926; *Administration*.

## REGIONAL REPRESENTATIVES OF THE COMMITTEE ON ADMISSION

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Davidson, North Carolina.....	JOHN W. MACCONNELL
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Nashville, Tennessee.....	SAM L. CLARK
Fort Worth, Texas.....	KHLEBER H. BEALL
San Antonio, Texas.....	P. I. NIXON
Salt Lake City, Utah.....	ALFRED J. RIDGES
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Charlottesville, Virginia.....	HENRY B. MULHOLLAND
Roanoke, Virginia.....	HUGH H. TROUT
Seattle, Washington.....	R. D. FORBES
Spokane, Washington.....	A. A. MATTHEWS
Huntington, West Virginia.....	GEORGE M. LYON

## GENERAL STATEMENT

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Duke University School of Medicine and Duke Hospital were established in 1925, through the munificent gift of the late James B. Duke. The *School of Medicine* has been planned to insure the greatest correlation between the various departments. These facilities are available also for students who are studying for degrees other than that of Doctor of Medicine. The School of Medicine has been approved as Class A by the American Medical Association and also is a member of the Association of the American Medical Colleges. On September 30, 1937, two hundred and forty-five students were enrolled.

### FACILITIES OF THE HOSPITAL

Duke Hospital has every modern convenience for the diagnosis, proper care, welfare and comfort of the patients, both private and charity, white and colored, whether they come from Durham or from a distance. It has 456 beds, including 50 bassinets for newly born infants. *Medicine*, including dermatology, neurology and psychiatry, has 111 ward beds; *surgery*, including urology, otolaryngology, ophthalmology and orthopedics, 105 ward beds; *obstetrics*, including *gynecology*, 56, and 50 bassinets; and *pediatrics*, 52. There are 82 private rooms and semi-private cubicles, 7 operating rooms, 4 obstetrics delivery rooms, and accommodations for a resident staff of 71. Offices and examining rooms for the members of the Medical Faculty are located in the Hospital. The Hospital has been approved for internship and residencies by the Council on Medical Education and Hospitals of the American Medical Association.

Duke Hospital and its Public Dispensary were opened for patients on July 21, 1930. Ninety-five thousand and five hundred individuals have been examined, diagnosed, and treated up to January 1, 1938. Seventeen per cent of the patients come from within a radius of twenty miles, the remaining 83 per cent come from over 98 of the 100 counties in North Carolina and from 20 other states. The average distance traveled by the patient is more than 70 miles.

**PUBLIC WARD PATIENTS.** Duke Hospital cannot give charity treatment to all who apply; therefore patients whose incomes are less than \$15 per week should apply for examinations or for admission to the public wards, through their family physicians, to the Duke Public Dispensary.

**PRIVATE PATIENTS.** Patients who can pay the ward and private rates of \$3.50 to \$9.00 per day, exclusive of professional services, may at any time, through their family physicians, in consultation with any member of the Hospital Staff, make reservations by telephoning to the Admitting Office (Durham F-131). Appointments for private examinations and treatment may be made in advance by telephoning to members of the Hospital Staff or to the Private Diagnostic Clinic (Durham F-131).

Every effort is being made to co-operate with the medical profession, and patients are asked to return to the physicians who referred them to the Hospital and Public Dispensary.

### **PUBLIC DISPENSARY**

The Public Dispensary, with eighty-seven examination and treatment rooms, a physiotherapy division, and a brace and instrument shop, is equipped for the diagnosis and treatment of all forms of disease.

### **SCHOOL OF NURSING**

The next class of students will be admitted to the Duke University School of Nursing on October 3, 1938, but applications should be sent as soon as possible; they will be considered in the order received. The entrance requirements are intelligence, character, and graduation from an acceptable high school. The course leading to the Diploma of Graduate Nurse consists of three years of eleven months each. The tuition is \$100 per year. Application forms and bulletins may be obtained by writing to the Dean, Duke University School of Nursing, Durham, N. C.

Duke University grants the degree of Bachelor of Science in Nursing to women who have completed successfully two years of college work (60 semester-hours) in Duke University or another approved university or college, in addition to the three-year course leading to the Diploma of Graduate Nurse in Duke University School of Nursing, provided they have had certain specified college courses. The sixty semester-hours of college work can be completed either before or after the three-year course in the School of Nursing but not during it. Those who contemplate studying for this degree should obtain advice from the Dean of the School of Nursing about the University or College courses which are recommended.

### **SCHOOL OF DIETETICS**

In addition to the training of medical students and nurses in dietetics, six student dietitians may be admitted to the School of Dietetics and given the certificate of graduate dietitian after the successful completion of one year. The entrance requirements are a Bachelor's degree from an approved university or college, with majors in nutrition and institutional management, and the courses in chemistry, biology, social science and education recommended by the American Dietetic Association. The course for student dietitians provides instruction in all phases of hospital and institutional dietetics, including experience from the buying and storage of food to its service to the patient according to the doctor's orders. In addition, the student dietitians are required to complete the courses in biochemistry, nutrition and selected portions of physiology as given to the medical students.



More detailed information and application blanks may be obtained from the Professor of Dietetics, Duke University School of Dietetics, Durham, N. C. The course starts the first Monday in September, but applications for appointments should be made before February 1. No tuition is charged, but a registration fee of \$10.00 is payable at the time of appointment; maintenance is provided.

### Hospital Administration

Three or four internships in hospital administration are available to university graduates, whose character, tact, and ability for leadership are good, and whose academic standing is high. These internships are of three years' duration and pay a small salary in addition to room, board, and laundry. Vacations of one month are allowed at the beginning of the second and third years of internship.

The instruction is practical rather than theoretical in emphasis. The internes are rotated through five different assistant administrative positions in the Hospital. There is also a weekly seminar lasting two hours. Further information may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C.

### ANESTHESIA

Duke Hospital offers to registered nurses from accredited schools of nursing a twelve months' course in anesthesia, which includes the theory and practice of anesthesia. The tuition fee of \$100 covers all expenses of the course, including maintenance. Applications may be sent to Miss Mary Muller, Duke Hospital, Durham, N. C.

### RECORD LIBRARY

Duke Hospital proposes to offer a course for the training of Medical Record Librarians. This course will include every detail of the theory and practice of clinical record librarian methods. A nominal tuition fee will be charged.

### POSTGRADUATE STUDY

The need for more provision for postgraduate study is very acute, not only in this country, but also abroad. There are very few clinics to which a physician can go, after he has been in practice several years, to obtain the additional training which he has found necessary. The School of Medicine is attempting to fill this need.

### INTERNESHIPS AND RESIDENCIES

Internships of one year's duration with room, board, laundry, and uniforms furnished, but without salary, are available in *surgery* (including general surgery, urology, and orthopedics), in *orthopedics*, in *urology*,



in *otolaryngology*, in *dentistry*, in *obstetrics* and *gynecology*, in *pediatrics*, or in *pathology*, commencing each July and September.

After the completion of an internship in Duke Hospital or in another acceptable hospital, a certain number may be appointed as assistant residents in medicine, surgery, obstetrics and gynecology, pediatrics, neuropsychiatry, orthopedics, urology, otolaryngology, roentgenology, pathology, biochemistry, or the Student Health Service, or as fellows of the Private Diagnostic Clinic, at a salary of \$250 to \$500 per year with maintenance, and eventually may be promoted to the residency in the various departments or sub-departments of the Hospital at an annual salary of \$500 to \$1,000 with maintenance.

### LIBRARY

In addition to the general library of Duke University and the departmental libraries of biology, chemistry, physics, etc., which have 453,991 volumes available for medical students, Duke Hospital Library contains 34,239 volumes of American and foreign medical literature and subscribes to 335 current American and foreign medical and other scientific journals. These books and journals are available daily from 8:20 A.M. to 11:00 P.M. for the students, nurses, staff, and medical profession.

### REQUIREMENTS FOR ADMISSION

*Intelligence and character are the essential qualifications for admission.*

In addition, each candidate must have the following preparation, which includes the minimal requirements for Class A medical schools:

1. At least two years of college work (70 semester-hours), including:
2. *Biology*: At least one year (12 semester-hours, one half of which must be laboratory work, and must include training in embryology). A course in comparative anatomy also is recommended.
3. *Chemistry*: At least two years (10 semester-hours of inorganic chemistry including short or preliminary courses in qualitative and quantitative analysis, and 6 semester-hours of organic chemistry; one-half of each course must be laboratory work). These represent the minimal requirements in chemistry. Additional courses in analytical and physical chemistry are desirable.
4. *Physics*: At least one year (10 semester-hours, one half of which must be laboratory work).
5. *English*: At least two years (12 semester-hours).
6. *Mathematics*: At least one year (6 semester-hours; a working knowledge of logarithms is essential, and one of calculus is desirable).
7. *German*: A reading knowledge of scientific German is highly desirable.
8. Applicants are required to take the aptitude tests of the Association of American Medical Colleges unless specifically excused by the School. These tests are given at most of the colleges and universities in December. Selection is based on the *quality* rather than the *quantity* of preparation.

### **REQUIREMENTS FOR ADMISSION TO ADVANCED STANDING**

In addition to the requirements for entrance, an applicant for admission to the Junior Class must present evidence that he will complete successfully the first- and second-year curriculum in a Class A medical school consisting of: gross, microscopic and neuro-anatomy, biochemistry, pharmacology, physiology, gross and microscopic pathology, bacteriology, clinical microscopy, and normal and abnormal physical diagnosis. Students who transfer from other medical schools can be admitted only in the Autumn Quarter. They are eligible to receive their certificates in March or June two years later, depending on whether they attend the intervening Summer Quarter. Application forms may be obtained by writing to the Dean, Duke University School of Medicine, Durham, N. C.; they are considered and a decision in regard to admission made as described in the Bulletin of the School of Medicine. All applications must be completed by March 15 if they are to receive consideration. Students at other approved medical schools may, if recommended, transfer to Duke for one or more quarters for regular or special studies. They should write to the Dean for information.

### **REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE**

After completion of seventy semester-hours in Duke University or other approved university or college, and six quarters in the Duke University School of Medicine, Duke University, on the recommendation of the Executive Committee, grants the degree of Bachelor of Science in Medicine to medical students who have completed creditable investigative work, prepared an acceptable report of the investigation, and passed an examination upon the subject of the investigation before an advisory committee. Students who elect to undertake work toward this degree must obtain written permission from the Executive Committee after approval of their program by the head of the department in which the work is to be done. No credit toward this degree is given for additional college work, and students who have a Bachelor's degree are not eligible, but all students in good standing are encouraged to undertake such investigative work as they may elect when approved by the Curriculum Committee and the head of the department in which they wish to work.

### **REQUIREMENTS FOR THE DEGREE OF DOCTOR OF MEDICINE**

A certificate is given those who, after fulfilling all the requirements for entrance, have completed, to the satisfaction of the Executive Committee, the twelve quarters of the curriculum of the School of Medicine. The degree of Doctor of Medicine is conferred after the completion of two years in satisfactory training in a hospital or laboratory acceptable to the Executive Committee.

## DEPARTMENTS OF INSTRUCTION

### Anatomy

Five days per week during the Autumn Quarter, and two days per week during the Winter Quarter of the first year are devoted to the courses of instruction in gross human anatomy, histology, and neurology *required* of all entering students. Further work in these subjects and advanced studies in various other branches of anatomy may be undertaken during the student's free time. Prospective candidates for *elective* work should discuss their wants with the member of the Staff in charge of the particular field in which work is requested, because only a small number can be accommodated in each group. A few properly qualified students may be permitted to undertake original research under the direction of various members of the Staff.

### Biochemistry

The *required* course in general biochemistry for first-year students is given in the Autumn and Winter Quarters. One morning each week in the Autumn Quarter is devoted, in discussion groups, to the correlation of the fundamental facts and theories of physical and organic chemistry with the chemistry of living organisms. In the Winter Quarter three lectures and four laboratory periods per week, supplemented by systematic reading and weekly conferences in small groups, are devoted to a more intensive study of the chemistry of the physiological processes of digestion and absorption, circulation and respiration, acid-base and salt equilibrium metabolism including quantitative urine and blood analyses.

Since the success of the students in this course is largely determined by the adequacy and ready availability of their premedical training, it is urged that all students review the fundamental laws, theories, and facts of chemistry before the beginning of the course. A circular outlining the topics requiring special attention is sent to all students upon admission. Additional copies of the circular may be obtained from the Dean's Office. An examination to test the state of preparation of the student is given in the beginning of the course in biochemistry.

*Electives.* In connection with the course given in the Spring Quarter for second-year students a survey of *pathological and clinical chemistry* is presented. In this course are covered abnormalities of: Protein, fat and carbohydrate metabolism, acid-base regulation, salt and water distribution, nitrogen retention, calcium and phosphorus metabolism, blood and derived bile pigments. The discussion of these topics is based upon case histories, including the records of the Clinical Chemical Laboratory of the Hospital.

*Biochemical Research.* The facilities of the department, including various types of research equipment and the clinical material of the blood chemistry laboratory, are available to properly qualified students for inde-

pendent or supervised investigations. Chemical investigations of problems in biochemistry or in conjunction with the clinical departments and the Department of Pathology may be carried on.

*Seminar in Toxicology.* A round-table discussion of the homicidal, suicidal and industrial poisons, alcoholism, etc. Autumn or Spring Quarters by arrangement.

*Laboratory Detection of Common Poisons.* A laboratory course in the properties, detection and identification of the common poisons. Consideration is given to the types of material to be examined, legal precautions to be taken and interpretation of the findings. Autumn or Spring Quarters by arrangement.

*Blood Analysis.* A laboratory course in the technic of quantitative blood analysis and in the interpretation as applied in clinical work. Offered in the Autumn Quarter.

### **Physiology, Pharmacology, and Nutrition**

The *required* courses consist of (a) a lecture course in physiology, (b) a lecture course in pharmacology, (c) a lecture course on the elements of nutrition, supplemented by demonstrations of some biological and chemical methods employed in nutrition studies, (d) a laboratory course in physiology and pharmacology, and (e) a seminar in which the problems arising in the laboratory and in the student's reading are discussed.

*Elective* courses covering particular aspects of these subjects, including pathological physiology and research in special fields, are available

*Research.* A few properly qualified students are permitted to undertake original research in physiology, pharmacology, or nutrition under the direction of various members of the Staff.

### **Pathology**

The *required* course in general pathology for second-year students is given in the Autumn and Winter Quarters. The class is divided into small groups, one instructor and an assistant being assigned to each group. For the purpose of teaching the gross pathological alterations of tissue, the museum material, which consists of complete cases preserved as units, has been classified into well-organized groups, such as obstructions, diseases due to animal parasites, tumors, etc., each group of materials being placed in a separate laboratory. The various student groups work with these groups of material in rotation. The microscopic aspects of pathological processes are studied by the students at the same time the gross pathological features of the disease are being considered. Physiological, chemical and bacteriological phases of the various disease processes are presented to the student by constant reference to the autopsy protocols and clinical studies of the cases which are being considered by the groups, and by visits to the Hospital wards. Once each week a clinic is presented for the class; the subjects of the clinics are cases from the Hospital which illustrate pathological processes being currently studied. Lectures on general subjects of wide application are given in co-ordination with the



museum case studies. Attendance at autopsies is required of the students of the second year, the class being divided into small groups which are called in turn. The group members are required to follow all studies of the cases which they see and to prepare their own complete records. Cases thus prepared are presented by the students before the entire class under the direction of the Staff.

*Elective* courses in pathology in the Spring Quarter are available for a limited number of students who have completed the course in general pathology. Research facilities are provided in the department for students who are competent to undertake investigation.

On Wednesdays at 5 P.M., during the Autumn, Winter, and Spring Quarters, a clinical-pathological conference is held in co-operation with the staffs of the clinical departments. While this conference is designed especially for the Hospital Staff, it is open to all members of the medical profession and students of medicine. Students of the second, third, and fourth years routinely attend this conference. A gross diagnostic clinical-pathological conference on current autopsies is held weekly in collaboration with the clinical departments. This conference is required of the students of the third and fourth years.

### Bacteriology and Parasitology

*Bacteriology, Mycology, Immunology, and Parasitology.* The required course is given in the Autumn Quarter of the second year. An intensive study is made of the common bacteria, fungi, and parasites which cause disease in man. The scope of the laboratory course is reasonably wide and acquaints the student with all the methods and procedures employed in bacteriological laboratories. Most of the lecture time is devoted to the immunological and epidemiological aspects of infection. We are especially interested in the student's having a clear conception of: (1) how organisms gain entrance to the body, (2) the type of poisons which they produce, (3) the nature of immune bodies which are produced by the host, and (4) the methods of preventing the disease by active and passive immunization. *Research Bacteriology.* Opportunities for original investigations are afforded a few specially qualified students. *Clinical Bacteriology.* During their clinical clerkships on medicine (one quarter each for Junior and Senior classes), the students may perform the routine and special bacteriological work for the patients assigned to them on the teaching service, under the direction of the Department of Bacteriology and in parallel with the Biological Division of the medical clinics.

### Medicine

*Clinical Microscopy* is given in the Winter Quarter of the second year. The course includes the essentials of hematology and the examination of fresh material, such as urine, stools, spinal fluid, sputum, transudates and exudates. The most important parasites of man are studied by the use of fresh and museum material. Second-year and Senior students are given opportunities for special work and for investigation.

*Physical Diagnosis and Introduction to Clinical Medicine.* This course, in the Spring Quarter of the second year, consists of instruction in history taking, physical examination, and the application of the preclinical sciences to the interpretation of findings. All departments, preclinical and clinical, including the specialties, participate. The importance of co-operation between clinic and laboratory is emphasized, and the preclinical departments extend the teaching of their particular branches in correlation with other preclinical and clinical studies. In this manner the course serves as an introduction to clinical medicine. The class is divided into sections of not more than ten students, and each student is given individual instruction.

*Junior Medicine.* Junior students are assigned in small groups for one quarter to the medical wards as clinical clerks. Ward rounds are held from 8:30 to 9:30 A.M., on Mondays, Wednesdays, and Fridays. During the Autumn, Winter and Spring Quarters, medical clinics are given on Mondays, Wednesdays, and Saturdays at 11:30 A.M., and on Wednesdays, during the Summer Quarter.

*Senior Medicine.* Senior students are assigned for one quarter to the Dispensary as clinical clerks. Ward rounds are held from 9:30 to 11:30 A.M. on Mondays and Fridays. Seniors attend medical clinics on Mondays, Wednesdays, and Saturdays at 11:30 A.M.

*Neuropsychiatry.* Instruction is started in the second year with a course that covers psychobiology and general psychopathology, and which serves as a bridge between the student's work in academic psychology and clinical neuropsychiatry. This course is concerned with the modern conception of the personality, its neurophysiological basis, growth and development, and traits, normal and abnormal. The problems of intelligence, intelligence testing, and mental deficiency are discussed. The students are trained in neuropsychiatric method and examination, and they make a psychiatric or personality make-up examination upon themselves. Instruction in neuropsychiatry for Junior and Senior students is continued by weekly lecture-clinics during the Autumn, Winter, and Spring Quarters. In the Autumn Quarter the emphasis is on neurology; in the Winter and Spring Quarters the clinical study of psychiatry is developed. Mental disorders in general are considered, and the major psychoses are specifically outlined. The didactic work in neuropsychiatry is supplemented by clinics and by the student's actual experience in handling such psychiatric problems as occur on the wards and in the Public Dispensary of the Hospital. The problems of the psychoneuroses, psychotherapy, and mental hygiene are emphasized.

In addition, clinics are held in the North Carolina State Hospital, Raleigh, N. C. This institution, with over two thousand patients, is co-operating splendidly with the School of Medicine. Special and elective work in psychiatry is offered to students who are especially interested. For this, not only the facilities above mentioned, but also those of the North Carolina Caswell Training School for the mentally deficient are available. Before graduation, it is sought to give the student a workable con-



ception of the individual as a whole, the psychobiological unit, that may be applied in practice.

### Surgery

*General Surgery.* In the Spring Quarter the second-year students, during their course in physical diagnosis, attend clinics and demonstrations arranged to familiarize them with the technique of examinations and the diagnostic procedures used in general surgery and the surgical specialties. Emphasis is placed on the more practical and commonly used methods.

During the Autumn, Winter, Spring and Summer Quarters, at 11:30 A.M. on Tuesdays and Fridays, and during the Autumn, Winter and Spring Quarters at 9:30 A.M. on Saturdays, clinics in surgery and the surgical specialties are held for Junior and Senior students. The *Junior* students, during their surgical quarter, attend ward rounds in surgery from 8:30 to 10:30 A.M., on Mondays, Wednesdays, and Fridays, act as clinical clerks on the wards, avail themselves of the electives offered and attend the regular clinics. The surgical group in the *Senior* year attends ward rounds from 8:30 to 10:30 A.M. on Mondays, Wednesdays, and Fridays, the regular clinics and the electives offered, and assists in the surgical dispensary in the afternoons. Individuals may take any of the electives offered.

An *elective* course in operative surgery is given in the experimental laboratory during the Autumn and Spring Quarters. This course is scheduled from 8:30 to 11:30 A.M. on Tuesdays and Thursdays. The group is divided into operating teams, and each student takes his turn serving as the operator, first assistant, and anesthetist. During the Winter Quarter special work in experimental surgery may be arranged by conference with the instructor. The purpose of this course is to teach the basic principles of aseptic surgery as well as of anesthesia. Incidentally the student performs a number of operations illustrating various types of surgery, the operative procedures being of gradually increasing difficulty.

An *elective* course in emergency and traumatic surgery is given each quarter. In groups of two, each week, Junior or Senior students are on call in the emergency room for all accidents and emergencies. Opportunity is given to observe and assist in the treatment of accident cases and in the diagnosis of acute abdominal emergencies. Lectures, twice each week, during the Winter Quarter, supplement this course.

An *elective* course in anesthesia is open to four properly qualified Senior students, each quarter. Students meet the anesthetist each morning in the operating room and observe and administer anesthetics under supervision.

*Ophthalmological Division.* During the Spring Quarter second-year students receive instruction in elementary ophthalmology. During the Junior obstetrical quarter the students are assigned to the ophthalmological clinic on Tuesday and Friday afternoons for five and one-half weeks, and assist in the study and treatment of eye diseases. Especial emphasis is placed on the underlying medical and surgical conditions. Each

student follows throughout his time in the clinic all patients assigned to him. For those who manifest an unusual interest in this specialty, provision will be made for a more advanced work. An elective course in diseases of the eye, including refraction and the use of diagnostic instruments, is given each quarter on Thursday morning along with a similar elective in otolaryngology.

*Orthopedic Division.* In the Spring Quarter of the second year an introductory course in orthopedics is given. During the surgical quarters the Junior and Senior students attend ward rounds at 8:30 A.M. on Monday. Clinics are held during the Autumn Quarter on Friday at 11:30 A.M. for Juniors and Seniors. Students in their Senior Surgical Quarter are assigned in rotation to the orthopedic dispensary which is held in the afternoons. Special work may be arranged for students who wish to do research or experimental work. An elective course in orthopedic pathology is offered for one hour per week during the Winter Quarter for Juniors and Seniors. Lectures on fractures are given on Tuesday and Thursday morning at 10:30 during the Fall and Winter Quarters for Juniors and Seniors. Students are given the opportunity of attending the North Carolina Orthopedic Hospital Clinic at Goldsboro once a month. They may also attend similar clinics held once a month in Elizabeth City, Tarboro, and Lumberton.

*Otolaryngological Division.* An introductory course of instruction in the use of otolaryngological instruments, with a review of normal anatomy, is given to second-year students in the Spring Quarter. Clinics on Fridays at 11:30 A.M. during the Spring Quarter are given to Junior and Senior students. Junior students during their obstetrical quarter spend two afternoons for five and one-half weeks in the otolaryngological dispensary. There are no formal teaching otolaryngological ward rounds, but Junior and Senior students are assigned to patients during the surgical quarter. Individual instruction is given the student by the various members of the Staff. An *elective* course on the anatomy, physiology, and diseases of the ear, nose and throat will be arranged for those desiring it. An elective course on diseases of the ear, nose and throat, including X-ray interpretation and the use of diagnostic instruments is given on Thursday morning of each quarter along with a similar elective in ophthalmology.

*Urological Division.* In the Spring Quarter, second-year students are given a course of lectures and practical demonstrations in urological physical diagnosis in the normal individual. Ward rounds on urological patients are given every Saturday at 8:30 A.M., throughout the year, which Junior students in their surgical quarter, and the Senior surgical group are required to attend. During each quarter, small groups are selected from the Senior surgical group of students and assigned in rotation to the urological dispensary on Tuesday and Friday afternoons. Here, under proper supervision, they study patients and give recommended treatment. During one and a third quarters of the year urological lectures are given on Fridays at 11:30 A.M. for the Junior and Senior classes. These lectures deal with the affections of the male and female urinary

tract and of the male genital tract. Clinics for urethroscopic and cystoscopic investigation and the more technical methods of urological diagnosis and treatment are held Wednesdays from 1:30 to 5:00 P.M. and Thursdays from 9:30 A.M. to 12:30 P.M., and from 1:00 to 5:00 P.M. throughout the year. X-ray conferences on all urological cases are held Tuesday, Thursday, and Saturday mornings from 8:30 to 9:30, and are followed by staff rounds. Three Senior students may select one of these clinics, X-ray conferences and staff rounds as an elective.

*Neuro-surgical Division.* During the Autumn, Winter, Spring and Summer Quarters, at 11:30 A.M., on every third Tuesday, neuro-surgical amphitheater clinics are held for Junior and Senior students. In these clinics, the general principles of neuro-surgical diagnosis and treatment are discussed. During all four quarters, weekly ward rounds are held at 8:30 A.M. on Wednesdays for the surgical group in the Senior year. Emphasis is placed in these smaller clinics upon the recognition of neuro-surgical problems, followed by observation of the operating and post-operative procedures. Weekly X-ray and pathological conferences are held which may be attended by interested individuals.

*Dentistry.* Second-year students, in the Spring Quarter, are instructed in the principles of dentistry.

### Roentgenology

A course with especial reference to differential diagnosis and X-ray and radium therapy is given during the Senior surgical quarter.

### Obstetrics and Gynecology

*Second-year* students receive seventeen hours of instruction in the fundamentals of obstetrics and gynecology during their course in physical diagnosis in the Spring Quarter. Clinics and demonstrations for Junior and Senior students are held on Saturdays at 10:30 A.M. during the Autumn, Winter, and Spring Quarters, and on Mondays at 11:30 A.M. in the Summer Quarters. During one quarter of the *Junior* year each group of students attends ward rounds at 8:30 A.M. on Mondays, Wednesdays, and Saturdays, and the Public Dispensary at 1:30 P.M. daily, except Saturdays, Sundays, and holidays for eleven weeks. They also attend an endocrine clinic once a week for eleven weeks during the Junior year. The students also spend part of each day on the wards. *Senior* students, during their surgical quarter, have ward rounds on obstetrics and gynecology on Saturdays at 8:30 A.M. Each *Senior* student, during his specialties quarter, is required to spend two weeks on service with the Outside Obstetrics Training Group at Charlotte, North Carolina. This group is active in the antepartum care, in the delivery of the patients, and in the postpartum care of patients registered by the Maternity Clinic of that city. The group is under the direction of a trained obstetrician.

*Elective* courses in the diagnosis and treatment of obstetrics and gynecologic conditions are offered for Junior and Senior students.

### Pediatrics

Each *second-year* student receives nine hours of instruction in elementary pediatrics during the course in physical diagnosis in the Spring Quarter. *Junior* and *Senior* students, during their medical quarters, have pediatric ward rounds on Saturdays from 8:30 to 9:30 A.M. The *Senior* students are divided into three groups, each of which spends one quarter in pediatrics. During this quarter, they are assigned daily as clinical clerks on the children's ward, nursery and pediatric dispensary, attend ward rounds, at 8:30 A.M. on Mondays, Wednesdays, and Fridays, are instructed in the practical nursing of infants by Miss Sherwood on Fridays at 10:30 A.M., assist in the treatment of pediatric patients in the syphilis clinic on Thursdays at 7 P.M., and are taught the preparation of diets for infants and children by the Professor of Dietetics. Each student attends six infant feeding clinics during this quarter. On Thursdays at 11:30 A.M., the *Junior* and *Senior* students attend demonstrations at which the preclinical basis, as well as the clinical aspects, of disease are emphasized. *Elective courses:* *Senior* students may attend the infant feeding clinic on Tuesdays at 10 A.M., do research work, or assist in pediatric ward or dispensary one or more mornings per week, according to the time at their disposal.

### Legal Medicine and Toxicology

This course embraces a discussion of the relation of physicians to legal criminal procedures; jurisdiction of the coroner and medical examiner; laws governing the dead human body; personal identity of the living and the dead; the legal autopsy; traumatic injuries and fractures; rape; abortion; asphyxial death; homicidal, suicidal, and industrial poisoning; alcoholism; the examination of blood, stains, fibers, and the detection of malingering. The course is open to students in the seventh to twelfth quarters and is given in alternate years. To be given in 1938-39. Discussions of medico-legal problems for the House Staff and *Senior* students, and joint conferences of the medical and law students also are held.

### Preventive Medicine and Public Health

*A Lecture Course* includes instruction in the epidemiology and control of communicable diseases; maternal, infant and child hygiene; the collection of vital statistics and the function of federal, state, and local public health organizations. *A Field Course*, through the co-operation of Mr. G. Watts Hill, Mr. V. C. Ashbaugh, Mr. W. M. Piatt, and Capt. J. C. Michie, comprises instruction in and demonstration of principles and methods of milk control, ventilation, disinfection, fumigation, sewage disposal, and water supply. These courses are open to students in their seventh to twelfth quarters and are given in alternate years. To be given in 1938-39. *A Laboratory Course* is given in the Autumn Quarter of the second year by the Department of Bacteriology, and consists of the identification and virulence testing of diphtheria cultures, the isolation of stool, throat and blood organisms, the practical examination of water, Schick, Dick and tuberculin tests, and vaccination against typhoid and



smallpox. *Elective:* Through the co-operation of several city and county health officers, students may spend one or more weeks in observing and assisting in the operation of these public health units.

### CURRICULUM OF THE SCHOOL OF MEDICINE

The usual four medical school years of thirty-three weeks each may be condensed into three and one quarter calendar years. In the preclinical subjects three terms and in the clinical subjects four terms, each of eleven weeks, are given during the year, and a certificate is granted after the satisfactory completion of twelve terms. These may be taken consecutively (certificate in three and one quarter years) if the student's previous work has been outstanding and if he has been given permission by the Curriculum Committee; or three terms may be taken each year (certificate in four years). Such a curriculum will affect in no way the course at any other medical school. If students who have received their first two years of training at other medical schools wish to spend their clinical years at the Duke University School of Medicine, they are eligible in October for the seventh quarter, which corresponds to the beginning of the usual Junior Class.

Every effort is made to emphasize the close relationship of preclinical and clinical instruction. Members of the Clinical Staff assist in the teaching of preclinical subjects and demonstrate, to the students of the first two years, patients whose conditions illustrate the subjects being taught. Thus, from the student's first days, he is impressed with the interdependence of all branches of the medical science. During the sixth quarter every department of the School participates in a correlation course, which, combined with the teaching of physical diagnosis, serves to give the student just entering his clinical years a co-ordinated introduction to medicine in all its aspects. From the seventh to twelfth quarters, preclinical instructors assist the Clinical Staff in presenting the underlying basis of disease.

Nineteen per cent of the time in this curriculum is free for elective work or anything else which the student wishes to do. No credits are given for specific courses during this free time. The opportunity merely is provided for each student, on his own initiative, to obtain the additional training which he may feel to be necessary or desirable. It is hoped that many of the students will migrate to other medical schools in this country or abroad for one quarter, a practice which is encouraged. The students also may utilize their free time in elective courses in preclinical and clinical departments and may pursue independent work in any subject or may do research work. The elective courses have been organized for small groups and will be repeated, if necessary, in one or more quarters. Students who wish to study during the Summer Quarter, either here or elsewhere, to spend one or more quarters at other medical schools or to substitute a program different from that listed below, must obtain permission, in advance, from the Curriculum Committee.

## CURRICULUM OF FOUR QUARTERS OF ELEVEN WEEKS EACH

(The hours for these courses will be posted on the bulletin board.)

## FIRST YEAR

## AUTUMN QUARTER (1st) :

September 29 to December 17, 1938.

Anatomy (including histology and neuro-anatomy) .....	385	Hours
Biochemistry .....	18	Hours
Free time .....	26	Hours

## WINTER QUARTER (2d) :

January 3 to March 19, 1938.

Anatomy (including histology and neuro-anatomy) .....	165	Hours
Biochemistry .....	176	Hours
Free time .....	88	Hours

## SPRING QUARTER (3d) :

March 28 to June 11, 1938.

Physiology and pharmacology, including nutrition .....	330	Hours
Free time .....	99	Hours

## SECOND YEAR

## AUTUMN QUARTER (4th) :

September 29 to December 17, 1938.

Pathology .....	198	Hours
Bacteriology and Parasitology .....	150	Hours
Introduction to Psychiatry .....	11	Hours
Free time .....	70	Hours

## WINTER QUARTER (5th) :

January 3 to March 19, 1938.

Pathology .....	198	Hours
Bacteriology .....	11	Hours
Clinical microscopy .....	110	Hours
Free time .....	110	Hours

## SPRING QUARTER (6th) :

March 28 to June 11, 1938.

Physical diagnosis and introduction to clinical medicine .....	300	Hours
Free time .....	129	Hours

## JUNIOR YEAR

## SUMMER QUARTER (7th) :\*

June 20 to September 3, 1938.

Medicine (Junior) .....	385	Hours
Free time .....	44	Hours

\* The clinical instruction is repeated each quarter in order to utilize all the clinical material and to have small groups of students. Consequently students may vary the order of the seventh, eighth, and ninth quarters, and also the order of the tenth, eleventh, and twelfth quarters. Students, who do not attend the Summer Quarters, have similar instruction one quarter later. The above schedule merely illustrates the program of one group.



## AUTUMN QUARTER (8th) :\*

September 29 to December 17, 1938.

Surgery (Junior) .....	418	Hours
Free time .....	11	Hours

## WINTER QUARTER (9th) :\*

January 3 to March 19, 1938.

Obstetrics and gynecology (Junior) .....	220	Hours
Ophthalmology and Otolaryngology .....	66	Hours
Free time .....	143	Hours

## SENIOR YEAR

## SPRING QUARTER (10th) :\*

March 28 to June 11, 1938.

Medicine (Senior) .....	308	Hours
Free time .....	121	Hours

## SUMMER QUARTER (11th) :\*

June 20 to September 3, 1938.

Surgery (Senior) including Urology and Orthopedics .....	309	Hours
Obstetrics .....	120	Hours

## AUTUMN QUARTER (12th) :\*

September 29 to December 17, 1938.

Pediatrics .....	191	Hours
Medicine .....	83	Hours
Final clinical examinations .....	24	Hours
Free time .....	131	Hours

## SUMMARY

Total number of hours required instruction, (81%) .....	4,175
Total number of hours of free time, (19%) .....	973
Total number of hours in curriculum, (100%) .....	5,148

\* The clinical instruction is repeated each quarter in order to utilize all the clinical material and to have small groups of students. Consequently, students may vary the order of the seventh, eighth, and ninth quarters, and also the order of the tenth, eleventh, and twelfth quarters. Students, who do not attend the Summer Quarters, have similar instruction one quarter later. The above schedule merely illustrates the program of one group.

## FEES AND EXPENSES

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All fees for each quarter are due and payable at the beginning of each quarter, and no student will be admitted to classes until these fees have been paid at the University Treasurer's Office. A fine of \$5.00 is charged for late registration. No credit will be given for any quarter in which the tuition of \$150 has not been paid at the Treasurer's Office, whether the work has been done here or elsewhere, except: (1) students who have been given permission by the Curriculum Committee to spend a quarter at a European medical school or hospital will have their tuition of \$150 for that quarter remitted and (2) students who have been permitted by the Curriculum Committee to spend a quarter at another American medical school or hospital may subtract the amount of tuition paid at this other medical school or hospital from the \$150 due here for that quarter.

It is not advisable for a student to attempt outside work to defray his expenses; the results usually are disastrous to his health and academic standing.

### Fees and Expenses

Tuition, per quarter .....	\$150
Health fee, per quarter .....	3.33
Athletic fee, admitting students to all athletic contests held on the University grounds during the quarter .....	5
Room-rent, per quarter* (estimated) .....	50
Board, per quarter (estimated) .....	75
Laundry, per quarter (estimated) .....	10 to 20
Books, per quarter (estimated) .....	25 to 50
Commencement and diploma fees** .....	8
National Board of Medical Examiners fees** 25 (Part I), 20 (Part II)	
Microscope, ophthalmoscope, otoscope and other equipment, which are required of each student and which must conform to rigid standards, may be obtained on a rental basis from the University	20 to 30
Estimated total expenses, per month .....	100 to 150

### ANGIER B. DUKE MEMORIAL AND OTHER LOAN FUNDS

The Angier B. Duke Memorial, Incorporated, administers through an advisory committee of the officers of the University a loan fund for students. In addition, the University administers other endowed loan funds for the benefit of students who are not financially able to meet their expenses. Medical students, after their third quarter, are eligible for loans from these sources. No scholarships are awarded in the School of Medicine.

\* A few rooms in the University dormitories may be available for medical students. These rooms are provided with furniture, heat, electric light, and care of rooms; each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Meals may be had at the Union on the campus.

\*\* Payable at the beginning of the quarter in which a student is eligible for a degree or examination.

**RESEARCH FELLOWSHIPS**

The Anna H. Hanes Research Fellowship, in the Department of Medicine, held by Dr. Raymond Reiser.

The Lederle Laboratories Research Fellowship, in the Department of Biochemistry, held by Mr. Albert A. Kondritzer.

The James A. Greene Brucella Research Fellowship, in the Department of Medicine, held by Dr. Elijah E. Menefee, Jr.

**MEMORIAL CHAIR OF MEDICINE AND MEDICAL RESEARCH**

The Florence Reynaud McAlister Chair of Medicine and Medical Research was established and endowed in 1936 by Mrs. Amelie McAlister Upshur, in memory of her sister.

# THE SCHOOL OF NURSING

1937-1938

ANNOUNCEMENTS FOR 1938-1939

## SCHOOL OF NURSING AND HOSPITAL CALENDAR 1938-1939

1938

- Jan. 3. Monday—Winter Quarter begins.  
March 19. Saturday—Winter Quarter ends.  
April 18. Easter Monday: a holiday.  
June 6. Monday—Commencement.  
June 11. Saturday—Spring Quarter ends.  
June 20. Monday—Summer Quarter begins.  
July 4. Monday—Independence Day: a holiday.  
Sept. 3. Saturday—Summer Quarter ends.  
Sept. 29. Thursday—Autumn Quarter begins.  
Nov. 24. Thursday—Thanksgiving Day: a holiday.  
Dec. 17. Saturday—Autumn Quarter ends.

1939

- Jan. 2. Monday—Winter Quarter begins.  
March 18. Saturday—Winter Quarter ends.  
March 27. Monday—Spring Quarter begins.  
June 5. Monday—Commencement.  
June 10. Saturday—Spring Quarter ends.

## OFFICERS OF ADMINISTRATION

WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., LL.D.  
*President of the University*

ROBERT LEE FLOWERS, A.M., LL.D.  
*Vice-President, Secretary, and Treasurer*

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.  
*Vice-President*

CHARLES BLACKWELL MARKHAM, A.B., A.M.  
*Assistant Treasurer*

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BESSIE BAKER, R.N., B.S.  
*Dean of the School of Nursing*

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D.  
*Dean of the School of Medicine*

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## COMMITTEES

### STANDARDS COMMITTEE

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D., *Dean of the School of Medicine.*

BESSIE BAKER, R.N., B.S., *Dean of the School of Nursing.*

ANN HENSHAW GARDINER, R.N., B.S., M.S., *Assistant Professor of Nursing Education.*

JULIA ELIZABETH WHITE, A.B., R.N., *Assistant to the Dean.*

### STUDENT WORK COMMITTEE

BESSIE BAKER, R.N., B.S., *Dean of the School of Nursing.*

ANN HENSHAW GARDINER, R.N., B.S., M.S., *Assistant Professor of Nursing Education.*

JULIA ELIZABETH WHITE, A.B., R.N., *Assistant to the Dean.*

ISABEL HUNTER DILL, R.N., B.S., *Instructor in Principles and Practice of Nursing.*

GARNETTE ANNE NESTER, R.N., B.S., *Instructor and Assistant to the Dean.*

### ADVISORY COMMITTEE

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D., *Dean of the School of Medicine.*

BESSIE BAKER, R.N., B.S., *Dean of the School of Nursing.*

FREDERICK VERNON ALTVATER, A.B., A.M., *Superintendent.*



## GENERAL INFORMATION

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The School of Nursing of Duke University was established in 1925 in connection with the School of Medicine of the University and Duke Hospital through the munificent gift of the late James B. Duke.

The plan of the School is to give a sound basic course in Nursing Education which will prepare young women to give intelligent nursing care to the sick in hospitals and homes of the community as well as an introduction to the problems of community health and preventive medicine.

### FACILITIES FOR INSTRUCTION

The facilities for instruction include the undergraduate colleges of the University, the School of Medicine, and the Duke Hospital. Students of the School of Nursing are admitted on the same basis as other students of the University.

### LIBRARIES

The reference library of books and periodicals of special interest to students majoring in nursing is located in the Hospital Library. The student may use the general libraries on both campuses.

### RESIDENCE

The students are housed in the new fireproof residence located near the Hospital. It is adequately equipped with blankets and linen, making further provision by the student unnecessary.

### HEALTH REGULATIONS AND PHYSICAL EDUCATION

The School has general supervision of the student's health. All students are required to pass a physical examination upon admission to the School of Nursing and at periods thereafter, a final examination being given at the end of the course. The usual tests and vaccinations are required. Exercise for two periods a week during the first two quarters is required of all students taking the three-year course. Students in the five-year course meet the full requirements of the Woman's College during their Freshman and Sophomore years.

### ACTIVITIES OFFERED

*Autumn Quarter*—(October to December): Hockey, swimming, tennis, riding, moderate sports, and hiking.

*Winter Quarter*—(January to March): Informal gymnastics, Danish gymnastics, apparatus, games, individual gymnastics, folk dancing, clogging, interpretative dancing, swimming, and basketball.

*Spring Quarter*—(March to June): Tennis, swimming, riding, baseball, track, field events, and archery.

### ADMISSION REQUIREMENTS

The entrance requirements are intelligence, character, and graduation from an accepted high school. The course leading to the Diploma of Graduate Nurse consists of three years of eleven months each. The student must have passed her eighteenth birthday.

The degree of Bachelor of Science in Nursing also is offered to those who have completed successfully two years of college work (60 semester-hours) in Duke University or another acceptable college or university in addition to the three-year course leading to the Diploma of Graduate Nurse in Duke University School of Nursing. The sixty semester-hours may be completed either before or after the three-year course in the School of Nursing. Those who contemplate studying for this degree should write to the Dean of the School of Nursing for advice in regard to the required course of study.

### EXPENSES

The balance of the tuition fee of \$100 yearly is payable upon the day of admission, and at the beginning of each succeeding year of the three-year course. There will be no expense for room, board, and laundry during the pre-clinical and clinical periods. Textbooks and uniforms are furnished. There are no scholarships or loan funds in the School of Nursing. In the five-year course leading to the Diploma of Nursing and the B.S. degree the expense of the two years of college work is borne by the student. The above regulations regarding tuition, board, uniforms, and textbooks apply only when the student is in residence in the School of Nursing.

### THE THREE-YEAR COURSE

Each year is divided into four quarters of three months each. For the student entering in September there is a vacation of two weeks between the first and second quarters at Christmas; the remaining two weeks' vacation for that year is given during the summer months. A three months' vacation will be allowed during the three years. Vacations may not be limited to the summer, but may be assigned at any time during the year. This may be necessary to insure the most effective correlation of theory and practice.

## COURSES OF INSTRUCTION

*(This is a condensed description of courses. For a full description, see Bulletin of the School of Nursing.)*

Anatomy.	DR. HOLLINSHEAD, MISS GARDINER
Physiology.	DR. EADIE, DR. DICK, MISS GARDINER
Chemistry.	DR. TAYLOR, MISS GARDINER
Bacteriology.	DR. MARTIN, MISS GARDINER
Pathology.	DR. SPRUNT, MISS HOLLEMAN

### ENGLISH

English I, II.	MRS. GRAY
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### HYGIENE

Personal Hygiene.	MISS GARDINER
Posture.	MISS CARTER
Preventive Medicine and Public Health.	DR. EPPERSON AND ASSISTANTS, MISS GARDINER

### MEDICINE

Medical Diseases and Medical Nursing.	DR. QUERY, MISS BURNHAM
Communicable Diseases.	DR. MCBRYDE, MISS BURNHAM
Dermatology.	DR. PERSONS, MISS BURNHAM

### SPECIAL THERAPEUTICS

Within this group of lectures and nursing demonstrations are to be found those dealing with X-ray, dental hygiene, allergy, and basal metabolism.

X-ray.	DR. REEVES, MISS BURNHAM
Dental Hygiene.	DR. ATWOOD, MISS BURNHAM
Allergy.	DR. HANSEN, MISS BURNHAM
Basal Metabolism.	DR. JOHNSTON, MISS BURNHAM

### NURSING

History of Nursing.	MISS GARDINER
Principles and Practice of Nursing, Elementary.	MISS DILL
Principles and Practice of Nursing, Advanced.	MISS DILL
Ethics.	MISS BAKER
Hospital Economics.	MISS DILL
Case Study.	MISS BURNHAM

Senior Demonstrations.	MISS DILL, SUPERVISORS
Professional Problems.	MISS BAKER
Senior Seminar.	MISS GARDINER, MISS DILL, MISS NESTER

## NUTRITION

Nutrition and Cookery.	MRS. MARTIN
Diet in Disease.	MRS. MARTIN

## OBSTETRICS AND GYNECOLOGY

Gynecology and Gynecological Nursing.	DR. CARTER, MISS IRVINE
Obstetrics and Obstetrical Nursing.	DR. CARTER, MISS IRVINE

## PEDIATRICS

Pediatrics and Pediatric Nursing.	DR. MCBRYDE, MISS SHERWOOD
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## PHARMACOLOGY

Elementary Pharmacology.	MISS GARDINER
Materia Medica, Advanced.	MISS GARDINER

## PHYSIOTHERAPY

Physiotherapy.	MISS GORDON
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## PSYCHOLOGY

Psychology.	DR. LUNDHOLM
Mental Hygiene.	MISS GARDINER
Neurology and Psychiatry.	MISS GARDINER

## SURGERY

General Surgical Diseases and Surgical Nursing.	DR. JONES, MISS HOLLEMAN
Orthopedics.	DR. RANEY, MISS HOLLEMAN
Urology.	DR. ALYEA, MISS HOLLEMAN
Operating Technique.	MISS BATCHELDER
Otology, Rhinology, and Laryngology.	DR. EAGLE, MISS GARDINER
Ophthalmology.	DR. ANDERSON, MISS GARDINER
Social Service.	MR. STANLEY AND ASSISTANTS, MISS GARDINER

## SCHEDULE OF CURRICULUM—THREE-YEAR COURSE

## FIRST YEAR

<i>Autumn Quarter</i>				<i>Winter Quarter</i>			
			Hours				Hours
	Lect., Class	Lab.	Total		Lect., Class	Lab.	Total
Anatomy .....	27	63	90	Principles and			
Physiology .....	22		22	Practice of			
Chemistry .....	33	22	55	Nursing, Elem.	44	55	99
History of				Bacteriology ....	22	22	44
Nursing .....	33		33	Pharmacology,			
Psychology .....	22		22	Elem. ....	22	11	33
Personal				Nutrition and			
Hygiene .....	22		22	Cookery .....	22	22	44
English .....	33		33	Ethics .....	11		11
Principles and				English .....	33		33
Practice of							
Nursing .....	11	11	22		154	110	264
Hospital							
Economics ....	11		11				
	214	96	310				

Physical Education 2 hours a week the first and second quarters

*Spring Quarter*

			Hours
	Lect., Class	Lab.	Total
Principles and			
Practice of			
Nursing .....	33	33	66
Case Study .....	6	5	11
Physiotherapy ..	4	12	16
Materia Medica..	33		33
Diet in Disease ..	44		44
	120	50	170

*Summer Quarter*

Vacation .....	4 weeks
Ward Practice .....	8 hours daily

## SECOND YEAR

*Autumn Quarter*

			Hours
	Lect., Class	Total	
Pathology .....	22	22	
Medicine .....	33	33	
Surgery .....	33	33	
Operating			
Technique ....	11	11	
Orthopedics .....	22	22	
	121	121	

*Winter Quarter*

			Hours
	Lect., Class	Total	
Gynecology .....	22	22	
Urology .....	22	22	
Special			
Therapeutics ..	22	22	
Communicable			
Diseases .....	33	33	
	99	99	

<i>Spring Quarter</i>				<i>Summer Quarter</i>	
	Lect., Class	Hours Lab. Total			
Mental Hygiene..	22		22	Ward Practice .....	8 hours daily
Ear, Nose, Throat .....	22		22	Vacation .....	4 weeks
	<u>44</u>		<u>44</u>		

## THIRD YEAR

<i>Autumn Quarter</i>			<i>Winter Quarter</i>	
	Lect., Class	Hours		Lect., Class
Obstetrics .....	44		Psychiatry .....	33
Pediatrics .....	44		Eye .....	11
	<u>88</u>		Skin .....	11
			Senior Demonstrations .....	11
				<u>66</u>

<i>Spring Quarter</i>			<i>Summer Quarter</i>	
	Lect., Class	Hours		
Professional Problems .....	11		Vacation .....	4 weeks
Preventive Medicine and Public Health .....	22		Ward Practice .....	8 hours daily
Social Service .....	22		Clinical Experience After the First Six Months	
Senior Seminar .....	11		Medical Wards .....	6
	<u>66</u>		Surgical Wards .....	6½
			Diet Kitchen .....	1½
			Gynecological Nursing .....	2
			Operating Room .....	3
			Out Patient Clinics .....	1
			Private Wards .....	1
			Obstetrical Department .....	3
			Pediatrics Department .....	3
				<u>27</u>

In addition, there are a preparatory period of six months and a vacation period of three months, making a total of thirty-six months.

### THE FIVE-YEAR COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE AND GRADUATE IN NURSING

In order to meet the needs of the student, the five-year course leading to the degree of Bachelor of Science in Nursing and Graduate in Nursing has been planned in two groups.

In the first group the course is for the students completing two years of college work before entering the School of Nursing.

Group two is for students who plan to complete their two years of college work following their nursing education.

Whenever possible, the student should elect the five-year course, taking the two years of college work preceding the three years in the School of Nursing. Conferences may be planned to give the student a better understanding of the field she has chosen.



## GROUP I

The aim is to give the student in her first two years an introduction to the general cultural subjects which are considered fundamental, and to give her a better foundation in the science of nursing.

## SUGGESTIONS FOR FIVE-YEAR COURSE

FIRST YEAR			
<i>First Semester</i>		<i>Second Semester</i>	
	S.H.		S.H.
English 1 .....	3	English 2 or 4 .....	3
Language .....	3	Language .....	3
History 1 .....	3	History 2 .....	3
Chemistry 1 .....	4	Chemistry 2 .....	4
Mathematics 3 .....	3	Education 8 .....	3
	<hr/> 16		<hr/> 16
SECOND YEAR			
<i>First Semester</i>		<i>Second Semester</i>	
	S.H.		S.H.
English .....	3	English .....	3
Language .....	3	Language .....	3
Zoology .....	4	Zoology .....	4
Sociology 91 .....	3	Sociology 92 .....	3
History 91 .....	3	Psychology 101 .....	3
	<hr/> 16		<hr/> 16

Physical Education

Nursing Conference

## GROUP II

In this group the student enters the School of Nursing for three years and upon the completion of her nursing education enters the University to fulfill the following requirements leading to the degree of Bachelor of Science in Nursing and Graduate in Nursing.

The students will be required to complete sixty (60) semester-hours, thirty (30) of which must be in the work approved for Seniors.

She must complete eighteen to twenty-four (18-24) semester-hours in a major subject either in the division of Mathematics, Psychology, or Natural Science. The work in this division must not total more than thirty (30) semester-hours.

The total of thirty (30) semester-hours will also be required in the divisions of the Humanities, Social Science, and History.

At least twelve (12) semester-hours in each of these divisions will be required of the student.

Students will be allowed to take a maximum of six (6) semester-hours of Freshman work for credit. They must also meet the University requirements concerning quality-points.

# THE SCHOOL OF RELIGION

1937-1938

ANNOUNCEMENTS FOR 1938-1939

## CALENDAR

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1938

- Sept. 23. Friday, 4:00 P.M.—First regular Faculty meeting.  
Sept. 24. Saturday—Matriculation and registration of students.  
Sept. 26. Monday, 8:00 A.M.—Instruction begins.  
Sept. 29. Thursday—Formal opening exercises.  
Oct. 5. Wednesday—Last day for submitting subjects for B.D. theses.  
Oct. 13. Thursday—Fall retreat.  
Nov. 24. Thursday—Thanksgiving Day: a holiday.  
Dec. 10. Saturday—Duke University Day.  
Dec. 20. Tuesday, 1:00 P.M.—Christmas recess begins.

1939

- Jan. 3. Tuesday, 8:00 A.M.—Instruction is resumed.  
Jan. 17. Tuesday—Mid-year examinations begin.  
Jan. 31. Tuesday—Matriculation and registration for second semester.  
Feb. 1. Wednesday—Second semester begins.  
March 25. Saturday, 1:00 P.M.—Spring vacation begins.  
April 3. Monday, 8:00 A.M.—Instruction is resumed.  
May 15. Monday—Last day for submitting B.D. theses.  
May 19. Friday—Final examinations begin.  
June 3. Saturday—Commencement opens; Senior Class Day; Meeting of Board of Trustees.  
June 4. Sunday—President's Address to Graduating Class; Commencement Sermon.  
June 5. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

## GENERAL ADMINISTRATION

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FEW, WILLIAM PRESTON, A.B., A.M., Ph.D., LL.D., Litt.D.  
*President of the University*

FLOWERS, ROBERT LEE, A.M., LL.D.  
*Vice-President in the Business Division, Secretary, and  
Treasurer of the University*

WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D.  
*Vice-President in the Educational Division of the University*

BROWN, FRANK CLYDE, A.B., A.M., Ph.D.  
*Comptroller of the University*

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### COMMITTEE OF THE BOARD OF TRUSTEES ON THE SCHOOL OF RELIGION

W. W. PEELE, T. M. GRANT, J. B. HURLEY, T. F. MARR

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## EDUCATIONAL ADMINISTRATION

RUSSELL, ELBERT, A.B., A.M., Ph.D.  
*Dean of the School of Religion*

GARBER, PAUL NEFF, A.B., A.M., Ph.D.  
*Registrar of the School of Religion*

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### COMMITTEES OF THE FACULTY

*Admissions*—The Dean, the Registrar, and Professor Smith.

*Bulletin*—Professors Russell, Cannon, Garber, Spence, and Rowe.

*Extension*—Professors Hickman, Rowe, Myers, Ormond, and Spence.

*Library*—Professors Cannon and Smith and Assistant Professor Clark.

*Public Exercises*—Dean Russell and Professors Branscomb, Hickman, and Rowe, and Assistant Professor Stinespring.

*Registration and Advanced Standing*.—The Registrar, the Dean, and Professor Cannon.

*Theses*—Professors Cannon, Garber, Hickman, Smith, and Rowe.

*Representatives on Joint Committee on Junaluska School of Religion*—President Few, Dean Russell, and Professor Garber.

# **SCHOOL OF RELIGION IN DUKE UNIVERSITY**

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## **SCHOOL OF RELIGION**

Trinity College was established by Christian men for the purpose of providing education for young men and women under distinctive Christian auspices. There has been no departure from this clearly defined aim. On the contrary, there has been ever increasing emphasis placed upon this feature of the work of the College, especially in the provision in the curriculum for a great variety of courses on the Bible and other religious subjects.

Through the gift of James B. Duke, the School of Religion and its curriculum have been separated from the work of the Department of Religion in Trinity College. Among those for whom his gift was intended Mr. Duke placed ministers first. He felt sure that his native state of North Carolina stood in need primarily of a better educated and more efficiently trained ministry. The organization of the School of Religion of Duke University, the first of the professional schools to start its work, is the carrying out of this intention on the part of Mr. Duke. The work of the School began with the academic year 1926-27, though the formal opening exercises were not held until November 9, 1926.

Duke University retains the same close relationship which Trinity College always held to the Conferences in North Carolina of the Methodist Episcopal Church, South. This legal relationship has always been broadly interpreted: members of all Christian denominations, as well as Methodists, are made to feel welcome in the School of Religion. The basis on which the work is conducted is broadly catholic and not narrowly denominational.

## **THE PURPOSE OF THE SCHOOL OF RELIGION**

Christian work has now expanded to the extent that it covers far more than the work of a preacher or minister. The School of Religion of Duke University purposes to offer training for all types of Christian service. This includes missionaries, teachers of Bible and other religious subjects in the schools and colleges of the Church, directors of religious education, and social workers.

## **REQUIREMENTS FOR ADMISSION**

Candidates for matriculation must be graduates of colleges of recognized standing. They will be admitted without examination on presentation of an official transcript of all college credits and such other credits as they may have secured. This applies to students coming from foreign countries as well as to students from institutions in the United States. They must satisfy the Faculty as to their Christian character and purpose. To this end a letter regarding a student's character and purpose

from the pastor of his home church, a church official, or some faculty member in the college where he did his undergraduate work, should be presented at the time of admission. Women will be admitted on the same conditions as men.

### PART-TIME SCHEDULES

Students who are not giving full time to their studies in the School of Religion may carry only limited schedules of class work.

### REQUIREMENTS FOR GRADUATION

The requirements for the degree of Bachelor of Divinity are ninety semester-hours, six semester-hours of which shall be covered by the writing of an adequate thesis, either in a thesis seminar or under supervised thesis guidance. The course is planned to cover three years, of two semesters each, and students are urged to plan to spend in their theological studies the full time thus designated. Students coming from colleges where departments of religion are maintained may be admitted to advanced courses in the departments of the School of Religion in which they have done previous work as undergraduates. In no case will the degree of Bachelor of Divinity be conferred on a student until he has spent at least two full semesters in residence in the School of Religion, and has satisfactorily completed a minimum of twenty-four semester-hours of work.

### THESIS

A thesis is required of all candidates for the degree of Bachelor of Divinity. It shall be of such a character as shall evidence a knowledge of the methods of research and an ability to conduct independent investigations. It shall be written upon some topic in the major field of study. The candidate is responsible for the selection of a suitable subject, which must be approved by the professor in charge of the major field, and must be filed with the Dean of the School of Religion on or before October 5 of the academic year in which it is expected that the degree will be conferred. Following the submission and approval of the subject of the thesis no changes shall be permitted, except changes for the purpose of clarification or limitation of the subject. A student who does not complete his thesis within a period of three years from the date of the approval of his subject must secure a reapproval of the old subject or the approval of a new subject. The thesis shall be prepared under the supervision and guidance of the professor in charge of the major field. No student shall be allowed to write his thesis *in absentia* except on the approval of the Committee on Theses upon the recommendation of the professor in charge of the thesis. In all such cases regular reports as to the progress of the thesis must be made to the professor in charge, as often as he may deem wise.

The thesis shall be between one hundred and one hundred and twenty pages in length, inclusive of introduction, conclusion, appendices, and bib-



liography, except in unusual cases clearly recognized as such by the Thesis Committee in approving thesis subjects. The student, the director, and the Thesis Committee shall be responsible for the selection and approval of such subjects as can be treated satisfactorily within these limits.

The thesis shall be read by a committee of three members of the Faculty of the School of Religion, one of whom shall be the professor under whose direction the thesis has been written, and two other members appointed by the Dean, one of whom shall be of a department other than that in which the thesis is written. Each candidate shall be examined orally on his thesis by the committee appointed to read it, said examination not to exceed one hour in length. The thesis must be satisfactory to a majority of the members of the Examining Committee, including the representative of the department in which the thesis was written.

A complete, typed copy of the thesis shall be in the hands of the professor under whom the thesis is written, for correction, by May 1, and three permanently bound typewritten copies shall be presented for examination not later than May 15 of the year in which it is expected the degree will be conferred. Theses submitted after May 15 shall not be considered as fulfilling the requirements for graduation in that academic year. In the case of extensive corrections of the thesis in the course of the examination, such retyping and rebinding of the thesis as the Committee of Examination may desire shall be required.

# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF DIVINITY

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## GENERAL REQUIREMENTS

Ninety semester-hours are required for graduation. Forty-two of these must be the following:

Old Testament	6 s.h.
New Testament	6 s.h.
Christian Doctrine	6 s.h.
Church History	6 s.h.
Homiletics	6 s.h.
Practical Theology	6 s.h.
Religious Education	3 s.h.
History of Religion and Missions	3 s.h.
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	42 s.h.

## MAJORS AND THESES

Each student must select a major field in which he elects to write his thesis and in which he must take twelve semester-hours in addition to the general requirement in that field. This choice must be made by the end of the Middle year. A student may take his major in any of the departments of the School of Religion. He may also take his major in English Bible. To major in that field, he must complete in addition to the required work in the Departments of Old Testament and New Testament nine semester-hours in the Department of Old Testament and nine semester-hours in the Department of New Testament, exclusive of language.

12 s.h.

## FREE ELECTIVES

Thirty-six semester-hours are designated as free electives. These are to be elected by the student, subject to the approval of the Faculty.

36 s.h.

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90 s.h.

## DISTRIBUTION OF COURSES BY YEARS

### JUNIOR YEAR

Old Testament	6 s.h.
New Testament	6 s.h.
Church History	6 s.h.

The remaining twelve semester-hours shall be chosen from the remaining required courses or their normal sequences in the Departments of Homiletics, Practical Theology, Religious Education, History of Religion and Missions, but not more than six semester-hours shall be taken in one department. Students desiring courses in Greek and Hebrew may secure a suitable rearrangement of the distribution of courses by years on approval of the Registration Committee.

12 s.h.

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30 s.h.

## MIDDLE YEAR

## Christian Doctrine

6 s.h.

After completing all other required courses, the remainder of the work of this year is elective, but not more than twelve semester-hours shall be taken in one department.

24 s.h.

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 30 s.h.

## SENIOR YEAR

In the Senior year the student must fulfill all general requirements not completed in the Junior and Middle years. The remainder of the work is elective.

30 s.h.

## TABLE OF REQUIRED COURSES

## OLD TESTAMENT

203-204. Introduction to the Old Testament 6 s.h.

## NEW TESTAMENT

213-214. The Beginnings of Christianity 6 s.h.

## CHRISTIAN DOCTRINE

321. Introduction to the Science of Theology, *and either* 3 s.h.

322. The Content of Christian Doctrine, *or* 3 s.h.

324. Theology in Modern Christianity, *or* 3 s.h.

204. Christian Ethics, *or* 3 s.h.

245. Philosophical Foundations of Religious Belief I, *or* 3 s.h.

246. Philosophical Foundations of Religious Belief II 3 s.h.

## CHURCH HISTORY

233. Church History to the Reformation 3 s.h.

234. The History of the Evangelical Movement 3 s.h.

## HOMILETICS

SR341. Theory and Practice of Preaching 3 s.h.

SR342. Sermon Construction 3 s.h.

## PRACTICAL THEOLOGY

351. Rural Church Administration (alternating with SR355, Public Worship and Ordinances of the Church), *or* 3 s.h.

SR385. Missionary Promotion, *or* 3 s.h.

234. Experimental Social Ethics 3 s.h.

## RELIGIOUS EDUCATION

261. Foundations of Religious Education, *or* 3 s.h.

262. Organization of Religious Education 3 s.h.

## HISTORY OF RELIGION AND MISSIONS

281. Living Religions of the World 3 s.h.

## COURSES OF INSTRUCTION\*

### OLD TESTAMENT

- 201-202. Elementary Hebrew.—6 s.h. ASSISTANT PROFESSOR STINESPRING
- 203-204. Introduction to the Old Testament.—6 s.h.  
PROFESSOR RUSSELL AND ASSISTANT PROFESSOR STINESPRING
301. Old Testament Theology.—Prerequisite: Old Testament 203-204. 3 s.h.  
PROFESSOR RUSSELL
302. The Exegesis of Selected Books of the Old Testament.—Prerequisite:  
Old Testament 203-204. 3 s.h. ASSISTANT PROFESSOR STINESPRING  
[Not offered in 1938-39]
- 305-306. Elementary Arabic.—6 s.h. ASSISTANT PROFESSOR STINESPRING  
[Not offered in 1938-39]
- 307-308. Advanced Hebrew.—6 s.h. ASSISTANT PROFESSOR STINESPRING
309. History of the Ancient Near East.—3 s.h.  
ASSISTANT PROFESSOR STINESPRING
310. Old Testament Prophecy.—3 s.h. ASSISTANT PROFESSOR STINESPRING
- 401-402. Thesis Seminar.—Upon the satisfactory completion of the thesis  
the student receives six semester-hours credit for the thesis.  
DEPARTMENTAL STAFF

### NEW TESTAMENT

- SR211-212. Hellenistic Greek.—6 s.h., provided the student takes six  
semester-hours in New Testament Greek the following year.  
ASSISTANT PROFESSOR CLARK
- 213-214. The Beginnings of Christianity.—6 s.h. PROFESSOR BRANSCOMB
217. The New Testament in Greek.—Prerequisite: six semester-hours  
study of the Greek language. 3 s.h. ASSISTANT PROFESSOR CLARK
218. Galatians and I Corinthians.—Prerequisite: New Testament 217 or  
its equivalent. 3 s.h. ASSISTANT PROFESSOR CLARK  
[Not offered in 1938-39]
219. Life of Paul.—3 s.h. PROFESSOR MYERS  
[Not offered in 1938-39]
220. I Peter and the Gospel of John.—Prerequisite: New Testament 217  
or its equivalent. 3 s.h. ASSISTANT PROFESSOR CLARK
311. The Life and Teachings of Jesus.—Prerequisite: New Testament  
213-214. 3 s.h. PROFESSOR BRANSCOMB
312. New Testament Theology.—Prerequisite: New Testament 213-214.  
3 s.h. PROFESSOR RUSSELL

\* On recommendation of the professor in charge of the major field courses offered in the Graduate School of Arts and Sciences, other than those approved for credit in the School of Religion, may be approved for credit in individual cases, provided no equivalent course is offered in the School of Religion; each case to be decided on its merits.

314. **Exegesis of Selected Books of the New Testament.**—Prerequisite: New Testament 213-214. 3 s.h. ASSISTANT PROFESSOR CLARK

315. **Hellenistic Religions at the Beginning of the Christian Era.**—Prerequisite: New Testament 213-214. 3 s.h. ASSISTANT PROFESSOR CLARK

316. **Judaism at the Beginning of the Christian Era.**—Prerequisite: New Testament 213-214. 3 s.h. PROFESSOR BRANSCOMB

318. **Text of New Testament.**—Prerequisite: New Testament 213-214 and a reading knowledge of Greek. 3 s.h. ASSISTANT PROFESSOR CLARK  
[Not offered in 1938-39]

411-412. **Thesis Seminar.**—Admission by special permission. Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis. DEPARTMENTAL STAFF

### CHRISTIAN DOCTRINE

321. **Introduction to the Science of Theology.**—3 s.h. VISITING PROFESSOR BENTON

322. **The Content of Christian Doctrine.**—3 s.h. PROFESSOR ROWE

323. **Theology in Ancient and Medieval Christianity.**—Prerequisite: Christian Doctrine 321-322. 3 s.h. DR. OUTLER

324. **Theology in Modern Christianity.**—Prerequisite: Christian Doctrine 321-322. PROFESSOR ROWE

325. **Soteriology.**—Prerequisite: Christian Doctrine 321-322. 3 s.h. PROFESSOR ROWE  
[Not offered in 1938-39]

326. **Eschatology.**—Prerequisite: Christian Doctrine 321-322. 3 s.h. PROFESSOR ROWE  
[Not offered in 1938-39]

327. **Arminian Theology.**—Prerequisite: Christian Doctrine 321-322. 3 s.h. VISITING PROFESSOR BENTON

328. **Current Theology.**—Prerequisite: Christian Doctrine 321-322. 3 s.h. PROFESSOR ROWE

421-422. **Thesis Seminar.**—Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis. PROFESSOR ROWE

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301. **Old Testament Theology.**—3 s.h. PROFESSOR RUSSELL

312. **New Testament Theology.**—3 s.h. PROFESSOR RUSSELL

### CHURCH HISTORY

233. **Church History to the Reformation.**—3 s.h. ASSISTANT PROFESSOR PETRY

234. **History of the Evangelical Movement.**—3 s.h. PROFESSOR GARBER

331. **The Social Message of the Early and Medieval Church.**—Prerequisite: Church History 233-234. 3 s.h. ASSISTANT PROFESSOR PETRY

332. **The Medieval Church.**—Prerequisite: Church History 233-234. 3 s.h. ASSISTANT PROFESSOR PETRY

333. **The Church in America: The National Period.**—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR GARBER

334. **Protestantism and Catholicism in Europe since 1800.**—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR GARBER  
[Not offered in 1938-39]

335. **Modern Religious Leaders.**—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR GARBER

336. **Religious Leaders of the Early and Medieval Church.**—Prerequisite: Church History 233-234. 3 s.h. ASSISTANT PROFESSOR PETRY

338. **Seminar in Methodism.**—Prerequisite: Church History 233-234. 2 s.h. PROFESSOR GARBER

339. **Religion in the Southern States since the Civil War.**—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR GARBER  
[Not offered in 1938-39]

431-432. **Thesis Seminar.**—Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis. PROFESSOR GARBER

### HOMILETICS

SR341. **Theory and Practice of Preaching.**—3 s.h. PROFESSORS HICKMAN, MYERS, AND ROWE, AND MR. LEWIS

SR342. **Sermon Construction.**—3 s.h. PROFESSORS HICKMAN, MYERS, AND ROWE, AND MR. LEWIS

344. **Doctrinal Preaching.**—3 s.h. PROFESSOR HICKMAN  
[Not offered in 1938-39]

347. **History of Preaching.**—3 s.h. PROFESSOR MYERS

348. **Materials of Preaching.**—3 s.h. PROFESSOR MYERS

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343. **Psychology of Preaching.**—3 s.h. PROFESSOR HICKMAN  
[Not offered in 1938-39]

### PRACTICAL THEOLOGY

351. **Rural Church Administration.**—3 s.h. PROFESSOR ORMOND  
[Not offered in 1938-39]

352. **The Rural Church and Sociology.**—3 s.h. PROFESSOR ORMOND  
[Not offered in 1938-39]

SR355. **Public Worship and Ordinances of the Church.**—3 s.h. PROFESSOR ORMOND

SR356. **The Church's Service to the Community.**—3 s.h. PROFESSOR ORMOND

SR358a. **Church Music.**—2 s.h. MESSRS. BARNES AND CUNINGGIM

SR358b. **Church Architecture.**—1 s.h. MR. HAINES



SR453-454. Practicum on Rural Church Work.—2 s.h. PROFESSOR ORMOND

\*220. Rural Sociology.—3 s.h. ASSISTANT PROFESSOR THOMPSON

234. Experimental Social Ethics.—3 s.h. PROFESSOR HART

373. Pastoral Psychology.—3 s.h. PROFESSOR HICKMAN  
[Not offered in 1938-39]

SR385. Missionary Promotion.—3 s.h.  
PROFESSOR CANNON AND ACTING PROFESSOR DUBS

\*\*459. Introduction to Psychiatry.—1 s.h. ASSOCIATE PROFESSOR CRISPELL

### RELIGIOUS EDUCATION

261. Foundations of Religious Education.—3 s.h. PROFESSOR SMITH  
[Offered during the second semester]

262. Organization of Religious Education.—3 s.h. PROFESSOR SPENCE  
[Offered during the first semester]

263. Curriculum of Religious Education.—3 s.h. PROFESSOR SPENCE  
[Not offered in 1938-39]

267. Technic of Teaching Religion.—3 s.h. PROFESSOR SPENCE  
[Offered during the second semester]

SR265. Religious Drama.—3 s.h. PROFESSOR SPENCE

SR268. Drama Construction and Production.—3 s.h. PROFESSOR SPENCE

266. Educational Aspects of Worship.—3 s.h. PROFESSOR SMITH  
[Not offered in 1938-39]

362. Ethical Theory of Christian Education.—Prerequisite: Religious Education 261 or its equivalent. 3 s.h. PROFESSOR SMITH  
[Not offered in 1938-39]

363-364. Religious Thought in the Rise of American Culture.—Prerequisite: Religious Education 261 or its equivalent. 6 s.h. PROFESSOR SMITH  
[Not offered in 1938-39]

365. Seminar in Character Education and the State.—Prerequisite: Religious Education 261 or its equivalent. 2 s.h. PROFESSOR SMITH  
[Not offered in 1938-39]

366. Seminar in Philosophy of Religious Education.—Prerequisite: Religious Education 261 or its equivalent. 2 s.h. PROFESSOR SMITH

461-462. Thesis Seminar.—Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis.  
DEPARTMENTAL STAFF

### PSYCHOLOGY OF RELIGION

275. Introduction to the Psychology of Religion.—3 s.h. PROFESSOR HICKMAN

\* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

\*\* Course offered in the School of Medicine which is credited toward the degree of Bachelor of Divinity.

276. **Advanced Psychology of Religion.**—Prerequisite: Psychology of Religion 275 or its equivalent. 3 s.h. PROFESSOR HICKMAN

371. **The Genetic Psychology of Religion.**—Prerequisite: Psychology of Religion 275 or its equivalent. 3 s.h. PROFESSOR HICKMAN  
[Not offered in 1938-39]

372. **Mysticism in Religion.**—Prerequisite: Psychology of Religion 275 or its equivalent. 3 s.h. PROFESSOR HICKMAN  
[Not offered in 1938-39]

373. **Pastoral Psychology.**—3 s.h. PROFESSOR HICKMAN  
[Not offered in 1938-39]

374. **Psychology of Preaching.**—3 s.h. PROFESSOR HICKMAN  
[Not offered in 1938-39]

377-378. **Seminar: Theories of Self.**—4 s.h. PROFESSOR HICKMAN

471-472. **Thesis Guidance.**—Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis. PROFESSOR HICKMAN

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\*201. **Social Psychology.**—2 s.h. PROFESSOR McDUGALL  
[Not offered in 1938-39]

\*223. **Abnormal Psychology.**—3 s.h. PROFESSOR LUNDHOLM

\*219. **History of Psychology.**—2 s.h. PROFESSOR McDUGALL

\*228. **Psychology of Belief.**—2 s.h. PROFESSOR LUNDHOLM

### PHILOSOPHY OF RELIGION

\*203. **The Philosophy of Conduct.**—3 s.h. ASSOCIATE PROFESSOR MORGAN

204. **Christian Ethics.**—3 s.h. PROFESSOR SMITH

\*209. **Philosophy of Religion I: Philosophical Introduction.**—3 s.h. PROFESSOR WIDGERY  
[Not offered in 1938-39]

\*210. **Philosophy of Religion II: Philosophical Introduction.**—3 s.h. PROFESSOR WIDGERY  
[Not offered in 1938-39]

\*226. **The History of Ethics.**—3 s.h. ASSOCIATE PROFESSOR MORGAN

245. **Philosophical Foundations of Religious Belief I.**—3 s.h. ACTING PROFESSOR DUBS

246. **Philosophical Foundations of Religious Belief II.**—3 s.h. ACTING PROFESSOR DUBS

368. **Seminar.**—2 s.h. PROFESSOR SMITH

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331. **The Social Message of the Early and Medieval Church.**—3 s.h. ASSISTANT PROFESSOR PETRY

362. **Ethical Theory of Religious Education.**—3 s.h. PROFESSOR SMITH  
[Not offered in 1938-39]

363-364. **Religious Thought in the Rise of American Culture.**—6 s.h. PROFESSOR SMITH  
[Not offered in 1938-39]

\* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

## SOCIOLOGY

- SR202. Sociology and Religion.—3 s.h. PROFESSOR JENSEN  
[Not offered in 1938-39]
- \*205. Social Pathology.—3 s.h. PROFESSOR JENSEN
- \*206. Criminology.—3 s.h. PROFESSOR JENSEN
- \*212. Child Welfare.—3 s.h. PROFESSOR JENSEN
- \*219. Urban Sociology.—3 s.h. ASSISTANT PROFESSOR THOMPSON
- \*220. Rural Sociology.—3 s.h. ASSISTANT PROFESSOR THOMPSON
231. General Anthropology.—3 s.h. PROFESSOR HART
232. Cultural Anthropology.—3 s.h. PROFESSOR HART
233. The World Crisis in the Light of Social Anthropology.—Prerequisite: Sociology 231. 3 s.h. PROFESSOR HART
234. Experimental Social Ethics.—3 s.h. PROFESSOR HART
- \*242. Marriage and the Family.—2 s.h. PROFESSOR GROVES (U. N. C.)
316. Religion and the World Crisis.—Prerequisite: Sociology 233. 3 s.h. PROFESSOR HART
317. Seminar in Anthropology.—1 to 3 s.h. PROFESSOR HART
- \*319. Principles of Sociology.—3 s.h. PROFESSOR ELLWOOD
- \*320. History of Social Philosophy.—3 s.h. PROFESSOR JENSEN
- 421-422. Thesis Seminar.—Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis. PROFESSOR HART

## HISTORY OF RELIGION AND MISSIONS

281. Living Religions of the World.—3 s.h. PROFESSOR CANNON
283. Expansion of Christianity.—3 s.h. PROFESSOR CANNON  
[Not offered in 1938-39]
284. Comparative Religion.—Prerequisite: 281. 3 s.h. PROFESSOR CANNON
285. The Religions of India.—3 s.h. PROFESSOR CANNON  
[Not offered in 1938-39]
286. The Religions of the Far East.—3 s.h. ACTING PROFESSOR DUBS
287. Christian Missions in China.—3 s.h. ACTING PROFESSOR DUBS  
[Not offered in 1938-39]
288. Mohammedanism.—Prerequisite: 281. 3 s.h. PROFESSOR CANNON  
[Not offered in 1938-39]
289. Buddhism.—Prerequisite: 281. 3 s.h. PROFESSOR CANNON
- SR385. Missionary Promotion.—Prerequisite: 281. 3 s.h. PROFESSOR CANNON AND ACTING PROFESSOR DUBS

\* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

**481-482. Thesis Seminar.**—Prerequisite: six semester-hours in the department. Upon the satisfactory completion of the thesis the student receives six semester-hours credit for the thesis.

PROFESSOR CANNON

### COURSES ON THE MIDDLE AND FAR EAST

**History of the Foreign Relations of the United States.**—6 s.h.

[Not offered in 1938-39]

PROFESSOR CLYDE

**History of Modern Japan.**—3 s.h.

PROFESSOR CLYDE

**History of Modern China.**—3 s.h.

PROFESSOR CLYDE

**Political Institutions of the Far East.**—3 s.h.

DR. LINEBARGER

**International Politics of the Far East.**—3 s.h.

DR. LINEBARGER

**Chinese Philosophy.**—3 s.h.

[Not offered in 1938-39]

ACTING PROFESSOR DUBS

**Indian Philosophy.**—3 s.h.

PROFESSOR WIDGERY

## GENERAL INFORMATION

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### FEES

Tuition is remitted to students matriculated in the School of Religion, for which they are expected to render from time to time service which shall not interfere with their work in the School of Religion.

Each student is assessed per semester as follows:

Matriculation fee .....	\$25.00
Library fee .....	5.00
Athletic fee .....	5.00
Publication fee (optional) .....	2.50
Hospital fee .....	5.00
Damage fee .....	1.00

Each student is assessed, in the last semester before a degree is conferred, a commencement fee of \$3.00 and a diploma fee of \$5.00. The latter fee is refunded if the diploma is not awarded.

### THE LIBRARY

The School of Religion has its own library, conveniently housed in the School of Religion Building. The Library, which contains materials dealing with the subject of religion, already numbers nearly thirty thousand volumes. It has been carefully selected and is the equivalent in working efficiency of many libraries which are much larger. It is already rich in complete files of the more important journals and periodicals, in sets containing source materials for the study of the history of religion and missions, in facsimiles of the more important manuscripts of the New Testament, and in source materials in the field of American church history. The Library is being rapidly expanded. One of the outstanding possessions of the Library is a magnificent Greek manuscript of the thirteenth or fourteenth centuries containing the entire text of the New Testament.

# THE SUMMER SCHOOL

## 1938

First Term: June 13 to July 23

Second Term: July 25 to Sept. 3

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JUNALUSKA SUMMER SCHOOL, INC.

(AFFILIATED WITH DUKE UNIVERSITY)

AND

JUNALUSKA SCHOOL OF RELIGION

LAKE JUNALUSKA, N. C.

June 10 to July 22



## OFFICERS OF ADMINISTRATION

---

WILLIAM PRESTON FEW, A.B., A.M., Ph.D., LL.D.,  
PRESIDENT OF DUKE UNIVERSITY

ROBERT LEE FLOWERS, A.M., LL.D.,  
VICE-PRESIDENT OF DUKE UNIVERSITY AND MEMBER OF THE FACULTY  
COMMITTEE ON THE SUMMER SCHOOL

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.,  
VICE-PRESIDENT OF DUKE UNIVERSITY AND MEMBER OF THE FACULTY  
COMMITTEE ON THE SUMMER SCHOOL

HOLLAND HOLTON, A.B., J.D.,  
DIRECTOR OF THE SUMMER SCHOOL AND CHAIRMAN OF THE FACULTY  
COMMITTEE ON THE SUMMER SCHOOL

\*WILLIAM KENNETH BOYD, A.B., A.M., Ph.D.,  
MEMBER OF THE FACULTY COMMITTEE OF THE SUMMER SCHOOL

ARTHUR MARCUS PROCTOR, A.B., A.M., Ph.D.,  
ASSOCIATE DIRECTOR OF THE SUMMER SCHOOL

WILLIAM HENRY GLASSON, Ph.B., Ph.D.,  
DEAN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES

ALICE MARY BALDWIN, A.B., A.M., Ph.D.,  
DEAN OF THE WOMAN'S COLLEGE

WALTER KIRKLAND GREENE, A.B., A.M., Ph.D.,  
DEAN OF UNDERGRADUATE INSTRUCTION

MARY GRACE WILSON, A.B.,  
SOCIAL DIRECTOR AND ACTING DEAN OF WOMEN

ANNE GARRARD, A.B., A.M.  
(Dean of Students, Greensboro College),  
SOCIAL DIRECTOR AND ACTING DEAN OF WOMEN (Second Term)

FLORA MARIE MEREDITH, A.B.  
(Dean of Women, Hendrix College, Arkansas),  
ASSISTANT DEAN OF WOMEN (in charge of East Campus)

\* Deceased January 19, 1938.

## FACULTY OF THE SUMMER SCHOOL

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- BIGELOW, LUCIUS AURELIUS; S.B., Massachusetts Institute of Technology; Ph.D., Yale; CHEMISTRY (Duke University).
- BIRD, HAROLD CRUSIUS; Ph.B., C.E., Yale; CIVIL ENGINEERING (Duke University).
- BLOMQUIST, HUGO LEANDER; B.S., University of Chicago; Pasteur Institute, 1919; Ph.D., University of Chicago; BOTANY (Duke University).
- BROWNELL, WILLIAM ARTHUR; A.B., Allegheny College; A.M., Ph.D., University of Chicago; EDUCATIONAL PSYCHOLOGY (Duke University).
- CANNON, JAMES, III; A.B., Duke; A.M., Princeton; Th.B., Th.M., Princeton Theological Seminary; Edinburgh University, 1919; Garrett, 1924; RELIGION (Duke University).
- CARR, JOHN WINDER, JR.; A.B., Duke; A.M., Ph.D., Columbia; EDUCATION (Duke University).
- CARROLL, EBER MALCOLM; A.B., A.M., Ph.D., University of Michigan; HISTORY (Duke University).
- CHILDS, BENJAMIN GUY; A.B., A.M., University of Virginia; University of Virginia, 1921-22; EDUCATION (Duke University).
- COWPER, FREDERICK AUGUSTUS GRANT; A.B., A.M., Trinity College (Conn.); University of Strassburg, 1906-07; University of Geneva, 1907-08; Ph.D., University of Chicago; FRENCH (Duke University).
- CUNNINGHAM, BERT; B.S., M.S., Illinois Wesleyan; A.M., Duke; Ph.D., University of Wisconsin; ZOOLOGY (Duke University).
- ELLIOTT, WILLIAM WHITFIELD; B.A., Hampden-Sydney College; M.A., University of Kentucky; Ph.D., Cornell; MATHEMATICS (Duke University).
- ELLWOOD, CHARLES ABRAM; Ph.B., Cornell; Ph.D., University of Chicago; LL.D., Bethany College; SOCIOLOGY (Duke University).
- GARDINER, ANN HENSHAW; R.N., Grad. Shepherd Normal School (W. Virginia); B.S., Columbia; University of Washington Medical School of Hygiene, 1924-25; M.S., Kansas State College; HYGIENE (Duke University).
- GERGEN, JOHN L.; A.B., A.M., University of Minnesota; Ph.D., Rice Institute; MATHEMATICS (Duke University).
- GILBERT, ALLAN H.; B.A., Cornell; A.M., Yale; Ph.D., Cornell; ENGLISH (Duke University).
- GRAY, IRVING EMERY; B.S., Massachusetts State College; M.S., Ph.D., University of Wisconsin; ZOOLOGY (Duke University).
- HALL, FRANK GREGORY; A.B., Milton College; A.M., Ph.D., University of Wisconsin; ZOOLOGY (Duke University).
- HALL, WILLIAM HOLLAND; A.B., A.M., Duke; B.C.E., University of Michigan; M.S.C.E., University of Wisconsin; ENGINEERING (Duke University).

- HUBBELL, JAY BROADUS; A.B., University of Richmond; A.M., Harvard; Ph.D., Columbia; ENGLISH (Duke University).
- IRVING, WILLIAM HENRY; B.A., Mt. Allison University; B.A., M.A., Oxford; Ph.D., Harvard; ENGLISH (Duke University).
- JENSEN, HOWARD EIKENBERRY; A.B., A.M., University of Kansas; B.D., Ph.D., University of Chicago; SOCIOLOGY (Duke University).
- JORDAN, BRADY RIMBEY; Litt.B., Princeton; Ph.D., University of Wisconsin; FRENCH (Duke University).
- KRUMMEL, CHARLES ALBERT; Ph.B., Central Wesleyan College; Ph.M., Syracuse; Ph.D., University of Wisconsin; University of Marburg, 1910; GERMAN (Duke University).
- LAPRADE, WILLIAM THOMAS; A.B., Washington Christian College; Ph.D., Johns Hopkins; HISTORY (Duke University).
- LUNDEBERG, OLAV K.; A.B., St. Olaf College; A.M., Ph.D., University of Minnesota; Université de Montpellier, 1918; Centro de Estudios Historicos, Madrid, 1929; SPANISH (Duke University).
- MAUGHAN, WILLIAM; B.S., University of Minnesota; M.F., Yale; FORESTRY (Duke University).
- MITCHELL, FRANK KIRBY; A.B., Millsaps; A.M., University of Michigan; Oriel College, Oxford, 1921-24; ENGLISH (Duke University).
- MYERS, HIRAM EARL; A.B., Duke; S.T.B., S.T.M., Boston University; RELIGION (Duke University).
- NIELSEN, WALTER MCKINLEY; B.S., Ph.D., University of Minnesota; PHYSICS (Duke University).
- PEARSE, ARTHUR SPERRY; B.S., A.M., University of Nebraska; Ph.D., Harvard; ZOOLOGY (Duke University).
- PROCTOR, ARTHUR MARCUS; A.B., Duke; A.M., Ph.D., Columbia; EDUCATION (Duke University).
- RANKIN, ROBERT STANLEY; A.B., Tusculum College; A.M., Ph.D., Princeton; POLITICAL SCIENCE (Duke University).
- RANKIN, WILLIAM WALTER; B.E., North Carolina State College of Agriculture and Engineering; A.M., University of North Carolina; Harvard, 1914-15; Columbia, 1919-21; MATHEMATICS (Duke University).
- SCHUMACHER, FRANCIS X.; B.S., University of Michigan; FORESTRY (Duke University).
- SHRYOCK, RICHARD HARRISON; B.S.Ed., Ph.D., University of Pennsylvania; HISTORY (Duke University).
- SMITH, HILRIE SHELTON; A.B., Elon College; Ph.D., Yale; D.D., Defiance College; RELIGIOUS EDUCATION (Duke University).
- SPENCE, HERSEY EVERETT; A.B., A.M., B.D., Duke; RELIGION (Duke University).
- SPENGLER, JOSEPH JOHN; A.B., A.M., Ph.D., Ohio State University; ECONOMICS (Duke University).
- SYDNOR, CHARLES SACKETT; A.B., Hampden-Sydney College; Ph.D., Johns Hopkins; HISTORY (Duke University).

- THOMAS, JOSEPH MILLER; A.B., Ph.D., University of Pennsylvania; MATHEMATICS (Duke University).
- VOSBURGH, WARREN CHASE; B.S., M.S., Union College; Ph.D., Columbia; CHEMISTRY (Duke University).
- WALTON, LORING BAKER; A.B., Princeton; Harvard, 1917-18; Lic. ès L., Sorbonne; FRENCH (Duke University).
- WEBB, ALBERT MICAJAH; A.B., A.M., Yale; Sorbonne (Paris) and Madrid, 1907-08; Sorbonne, 1923; FRENCH (Duke University).
- WHITE, NEWMAN IVEY; A.B., A.M., Duke; A.M., Ph.D., Harvard; ENGLISH (Duke University).
- WILSON, ROBERT NORTH; A.B., Haverford College; M.S., University of Florida; Harvard, 1905-06; University of Illinois, 1923-24; Yale, 1931-32; CHEMISTRY (Duke University).
- WILSON, ROBERT RENBERT; A.B., Austin College; A.M., Princeton; Ph.D., Harvard; POLITICAL SCIENCE (Duke University).
- ZENER, KARL EDWARD; Ph.B., University of Chicago; A.M., Ph.D., Harvard; National Research Fellow in Psychology, University of Berlin, 1926-27; PSYCHOLOGY (Duke University).
- ADAMS, DONALD KEITH; A.B., Pennsylvania State College; A.M., Harvard; Ph.D., Yale; PSYCHOLOGY (Duke University).
- ALLEN, ROBERT JOSEPH; A.B., University of Illinois; A.M., Ph.D., Harvard; ENGLISH (Williams College).
- BERRY, EDWARD WILLARD; A.B., Ph.D., Johns Hopkins; GEOLOGY (Duke University).
- BLACK, MARTIN LEE, JR.; A.B., Duke; M.B.A., Northwestern; C.P.A., Illinois and North Carolina; ACCOUNTING (Duke University).
- BOYER, PHILIP ALBERT; A.B., Temple; A.M., Ph.D., University of Pennsylvania; PUBLIC SCHOOL ADMINISTRATION (Director of Educational Research, Philadelphia Public Schools).
- BRIDGERS, FURMAN ANDERSON; A.B., Duke; A.M., University of Chicago; University of Chicago, 1928-29, 1933; FRENCH (Duke University).
- CARLITZ, LEONARD; A.B., Ph.D., University of Pennsylvania; MATHEMATICS (Duke University).
- CARPENTER, DAVID WILLIAMS; A.B., A.M., Ph.D.; Duke; PHYSICS (Duke University).
- COLE, ROBERT TAYLOR; B.A., University of Texas; A.M., Ph.D., Harvard; POLITICAL SCIENCE (Duke University).
- CONSTANT, FRANK WOODBRIDGE; B.S., Princeton; Ph.D., Yale; PHYSICS (Duke University).
- COULTER, ELLIS MERTON; A.B., University of North Carolina; A.M., Ph.D., University of Wisconsin; HISTORY (University of Georgia).
- DAVIS, GIFFORD; A.B., Bowdoin College; A.M., Ph.D., Harvard; FRENCH (Duke University).
- DE VYVER, FRANK TRAVER; A.B., A.M., Oberlin College; A.M., Ph.D., Princeton; ECONOMICS (Duke University).

- EASLEY HOWARD; A.B., Union University, Tenn.; A.M., Ph.D., George Peabody College; EDUCATIONAL PSYCHOLOGY (Duke University).
- GAMBLE, GUY C.; B.S., Ph.D., Teachers College, Columbia University; EDUCATION (Senior Supervisor, Social Studies, W.P.A.).
- GODARD, JAMES McFATE; A.B., Park College; A.M., Duke; Duke, 1930-31, 1932-36; EDUCATION (Queens-Chicora College).
- GRIGGS, EARL LESLIE; B.A., University of Colorado; A.M., Columbia; Ph.D., University of London; ENGLISH (University of Michigan).
- GWYNN, JOHN MINOR; A.B., A.M., University of North Carolina; Ph.D., Yale; EDUCATION (University of North Carolina).
- GWYNN, PRICE HENDERSON, JR.; A.B., A.M., University of North Carolina; B.D., Yale Divinity School; Ph.D., Yale; EDUCATION (Davidson College).
- HALE, ORON JAMES; University of Washington (Seattle); A.M., Ph.D., University of Pennsylvania; HISTORY (University of Virginia).
- HAWKES, EVELYN JONES; A.B., A.M., Duke; Ph.D., University of Pennsylvania; SECONDARY EDUCATION (New Jersey College for Women).
- HIGHSMITH, JOHN HENRY; A.B., A.M., Duke; Columbia, 1904-06; LL.D., Catawba College; D.Ed., Wake Forest College; PUBLIC SCHOOL ADMINISTRATION (Director, Division of Instructional Service, North Carolina Department of Public Instruction).
- HILL, HENRY HARRINGTON; A.B., A.M., University of Virginia; Ph.D., Columbia; PUBLIC SCHOOL ADMINISTRATION (Superintendent of Lexington, Ky., Schools).
- HILLMAN, JAMES ELGAN; B.Ped., Berea College; B.S., A.M., Ph.D., George Peabody College; EDUCATION (Director, Division of Professional Service, North Carolina Department of Public Instruction).
- HOLLIS, ERNEST VICTOR; B.S., M.S., Mississippi State College; A.M., Ph.D., Columbia; EDUCATION (College of the City of New York).
- JENKINS, RAYMOND; A.B., Cornell; Ph.D., Yale; ENGLISH (Catawba College).
- JOHN, LENORE SUSAN; A.B., York College; A.M., University of Chicago; Chicago, —; ELEMENTARY EDUCATION (Specialist in Arithmetic, University of Chicago Laboratory School).
- JOHNSON, ROY IVAN; A.B., B.S. in Ed., University of Missouri; A.M., Ph.D., University of Chicago; EDUCATION (Stephens College).
- JORDAN, ARCHIBALD CURRIE; A.B., Duke; A.M., Columbia; Columbia, 1924-25; ENGLISH (Duke University).
- LANDON, CHARLES E.; A.B., A.M., University of Kansas; Ph.D., University of Illinois; ECONOMICS (Duke University).
- LANNING, JOHN TATE; A.B., Duke; A.M., University of California; University of London, 1926-27; Ph.D., University of California; HISTORY (Duke University).
- LEFLER, HUGH TALMAGE; A.B., A.M., Duke; Ph.D., University of Pennsylvania; HISTORY (University of North Carolina).



- McCLOY, SHELBY THOMAS; A.B., A.M., Davidson; B.Litt., B.A., Oxford; Ph.D., Columbia; HISTORY (Duke University).
- MANCHESTER, ALAN KREBS; A.B., Vanderbilt; A.M., Columbia; Ph.D., Duke; HISTORY (Duke University).
- MAXWELL, BALDWIN; A.B., A.M., University of North Carolina; Ph.D., University of Chicago; ENGLISH (State University of Iowa).
- MAXWELL, WILLIAM CARY; A.B., A.M., Duke; Ph.D., University of Heidelberg; GERMAN (Duke University).
- MIMS, EDWIN; A.B., A.M., Vanderbilt; Ph.D., Cornell; ENGLISH (Vanderbilt University).
- MOUZON, JAMES CARLISLE; B.A., Southern Methodist University; Ph.D., California Institute of Technology; PHYSICS (Duke University).
- ODELL, CHARLES WATTERS; A.B., A.M., DePauw; Ph.D., University of Illinois; EDUCATIONAL PSYCHOLOGY (University of Illinois).
- OVERN, ALFRED VICTOR; A.B., M.S., Ph.D., University of Minnesota; EDUCATION (University of North Dakota).
- PARKER, WILLIAM RILEY; A.B., Roanoke College; M.A., Princeton; B.Litt., Oxford; ENGLISH (Ohio State University).
- PARKS, EDD WINFIELD; A.B., Harvard; A.M., Ph.D., Vanderbilt; ENGLISH (University of Georgia).
- PATTON, LEWIS; A.B., Furman; Yale, 1923-26 ENGLISH (Duke University).
- PORTERFIELD, AUSTIN L.; A.B., Oklahoma City University; A.M., Drake University; B.D., Phillips University; Ph.D., Duke; SOCIOLOGY (Texas Christian University).
- QUYNN, DOROTHY MACKAY; A.B., A.M., University of California; Docteur de l'Université de Paris; HISTORY (Duke University).
- QUYNN, WILLIAM ROGERS; B.A., M.A., University of Virginia; Ph.D., Johns Hopkins; SPANISH (Duke University).
- RAMSDELL, CHARLES WILLIAMS; B.A., M.A., University of Texas; Ph.D., Columbia; HISTORY (University of Texas).
- SAYLOR, JOHN HENRY; A.B., Southern Methodist University; A.M., Ph.D., Duke; CHEMISTRY (Duke University).
- SCATES, DOUGLAS EDGAR; A.B., Whitworth; Ph.D., University of Chicago; EDUCATION (Director of Research and Statistics, Cincinnati Public Schools).
- SHIELDS, JOHN HERMAN; A.B., A.M., University of Texas; Columbia, 1924-26; ACCOUNTING (Duke University).
- SLAY, RONALD JAMES; B.S., University of Mississippi; A.M., Ph.D., Columbia; TEACHING OF SCIENCE (East Carolina Teachers College).
- SMITH, CULVER HAYGOOD; A.B., Duke; A.M., Yale; Ph.D., Duke; HISTORY (University of Chattanooga).
- SOLVE, MELVIN T.; B.A., University of Oregon; Ph.D., University of Michigan; National University of Norway, Oslo, 1920-21; ENGLISH (University of Arizona).



- SUGDEN, HERBERT WILFRID; A.B., Harvard; A.M., Ph.D., Duke; ENGLISH (Duke University).
- THOMPSON, EDGAR TRISTRAM; A.B., University of South Carolina; A.M., University of Missouri; Ph.D., University of Chicago; SOCIOLOGY (Duke University).
- WALLIN, JOHN EDWARD WALLACE; A.B., Augustana; A.M., Ph.D., Yale; EDUCATIONAL PSYCHOLOGY (Director of Special Education and Mental Hygiene, Delaware State Department of Public Instruction).
- WARD, CHARLES EUGENE; A.B., Baker; A.M., Ph.D., Duke; ENGLISH (Duke University).
- WHITE, MARIE ANNE; A.B., A.M., Washington University; ENGLISH (Duke University).
- WILSON, FREDERICK ELIPHAZ; A.B., Oberlin College; A.M., Columbia; University of Leipzig, 1916-17; Harvard, 1922-23; GERMAN (Duke University).
- AGNEW, DONALD CHARLES; A.B., Park College; A.M., Ph.D., Duke; EDUCATION (Coker College).
- ANDERSON, LEWIS EDWARD; B.S., Mississippi State College; A.M., Duke; Ph.D., University of Pennsylvania; BOTANY (Duke University).
- AVILÉS, LUIS ESTEBAN; A.B., Park College; A.M., University of Kansas; Ph.D., University of Illinois; SPANISH (Duke University).
- AYCOCK, THOMAS MALCOLM; B.S., Oklahoma State College; M.S., University of Iowa; HEALTH EDUCATION (Duke University).
- BARDEN, JOHN GLENN; A.B., University of North Carolina; A.M., Columbia; Columbia, 1930-31; EDUCATION (Duke University).
- BASON, CECILIA H.; A.B., Flora Macdonald College; A.M., Ph.D., Columbia; EDUCATION (Georgia State College for Women).
- BERRY, THOMAS SENIOR; S.B., A.M., Harvard; Harvard, 1932-35; ECONOMICS (Duke University).
- BROWN, FRANCES; A.B., Agnes Scott College; Ph.D., Johns Hopkins; CHEMISTRY (Duke University).
- CURTIS, KADER RANDOLPH; B.A., Wake Forest College; M.Ed., Duke; EDUCATION (Superintendent of Wilson County and City Schools).
- DOW, NEAL; A.B., Kenyon College; A.M., University of Pennsylvania; University of Pennsylvania, 1930-33; FRENCH (Duke University).
- ESKRIDGE, THOMAS JOSEPH, JR.; Emory and Henry College; A.M., George Peabody College; Ph.D., Duke; EDUCATION (Lander College).
- FITZGERALD, WILLIAM STONE; A.B., Vanderbilt; A.M., Harvard; Duke, 1934-37; ENGLISH (Duke University).
- FLANDERS, RALPH BETTS; A.B., A.M., Emory; Ph.D., Duke; HISTORY (New York University).
- GIBSON, WILLIAM MARION; A.B., University of Richmond; A.M., Ph.D., Duke; POLITICAL SCIENCE (Duke University).
- HARRIS, THERMAN WINFRED; A.B., Clarendon College; M.S.Ed., Oklahoma University; Duke, 1936-37; EDUCATION (Eastern New Mexico Junior College).

- HOBBS, MARCUS EDWIN; A.B., A.M., Ph.D., Duke; ASSISTANT IN CHEMISTRY (Duke University).
- JARRELL, HAMPTON McNEELY; A.B., University of Georgia; A.M., Harvard; Ph.D., Duke; ENGLISH (Winthrop College).
- KEECH, JAMES MAYNARD; A.B., A.M., Ph.D., Duke; ECONOMICS (Duke University).
- LINEBARGER, PAUL M. A.; A.B., George Washington University; M.A., Ph.D., Johns Hopkins; POLITICAL SCIENCE (Duke University).
- McCULLOCH, THOMAS LOGAN; A.B., Whittier; A.M., Ph.D., Duke; PSYCHOLOGY (Duke University).
- McEWEN, NOBLE RALPH; A.B., Birmingham-Southern College; A.M., Duke; Duke, 1930-32; EDUCATION (Salem College).
- MABRY, WILLIAM ALEXANDER; A.B., A.M., Duke; A.M., Harvard; Ph.D., Duke; HISTORY (Duke University).
- MARKS, SALLIE BELLE; A.B., A.M., Teachers College, Columbia; ELEMENTARY EDUCATION (Meredith College).
- MICHAELS, MATILDA OSBORNE; A.B., Duke; A.M., Columbia; ELEMENTARY EDUCATION (Supervisor Durham County Schools).
- PORTER, ESTELLE RAWL; A.B., Winthrop College; Smith College, 1922-23; University of Chicago, 1926-27; ELEMENTARY EDUCATION (Queens-Chicora College).
- RAYMOND, MARY LOIS; A.B., Mount Holyoke College; A.M., Radcliffe College; University of Wisconsin, 1919-20; University of Madrid and University of Paris, 1921-22; School of International Studies, Geneva, 1928; FRENCH (Duke University).
- SANDERS, CHARLES RICHARD; B.Th., A.M., Emory; Ph.D., University of Chicago; ENGLISH (Duke University).
- SIMPSON, WILLIAM HAYS; A.B., Tusculum College; A.M., Ph.D., Duke; POLITICAL SCIENCE (Duke University).
- SMITH, ROBERT SIDNEY; A.B., A.M., Amherst College; Ph.D., Duke; ECONOMICS (Duke University).
- WATSON, KARL BRANTLEY, JR.; B.S., A.B., University of Chattanooga; A.M., Duke; Duke, 1936-38; EDUCATION (Duke University).
- WEST, ALFRED THURBER; B.S., Alabama Polytechnic Institute; A.M., University of Alabama; Teacher's Certificate from American Academy of Dramatic Art; ENGLISH (Duke University).
- WOODY, ROBERT HILLIARD; Ph.B., Emory; A.M., Ph.D., Duke; HISTORY (Duke University).
- ALSTON, AUGUSTA MICHAELS; A.B., Duke; DRAWING (Durham City Schools).
- BOOKHOUT, ELIZABETH CIRCLE; A.B., Randolph-Macon Woman's College; M.S., Wellesley; PHYSICAL EDUCATION (Duke University).
- BRIGHT, ROBERT DIETRICH; A.B., Dartmouth College; Duke, 1936-38; ASSISTANT IN CHEMISTRY (Duke University).
- COOPER, GERALD RICE; A.B., A.M., Duke; Duke, 1937-38; ASSISTANT IN CHEMISTRY (Duke University).

- DEANS, EDWINA; A.B., North Carolina College for Women; M.Ed., Duke; ELEMENTARY EDUCATION (Teacher in Evanston, Illinois, Schools).
- HOPKINS, JOHN ISAAC; B.S., A.M., Duke; Duke, 1936-38; ASSISTANT IN PHYSICS (Duke University).
- MASON, MARY LOCHER; Diploma, Maryland Institute; Diploma in Fine Arts, Teachers College, Columbia; DRAWING (Durham City Schools).
- PECK, ROBERT LAWRENCE; B.S., Duke; Duke, 1936-38; ASSISTANT IN CHEMISTRY (Duke University).
- RYERSON, CLIFFORD MARTEN; B.S., John B. Stetson; Duke, 1937-38; ASSISTANT IN PHYSICS.
- SHAW, WILLIAM HENRY; A.B., M.Ed., Duke; Columbia, 1935; ASSISTANT IN EDUCATIONAL RESEARCH (Raleigh Public Schools).
- STUCKEY, JAMES MORLAN; B.S., Centenary College; A.M., Duke; Duke, 1937-38; ASSISTANT IN CHEMISTRY (Duke University).
- TWADDELL, VERA CARR; A.B., Duke; MUSIC (Formerly Supervisor Music, Durham County Schools).
- WILLIAMS, JAMES WESLEY; A.B., Duke; B.S., Georgia School of Technology; ASSISTANT IN ENGINEERING (Duke University).

## DUKE UNIVERSITY SUMMER SCHOOL

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In 1937 there was a total of 2,953 registrations in Duke University Summer School and affiliated schools. Of these registrations 1,741 students were enrolled in the first term of the Duke University Summer School, 308 the second term, and 699 the third term; 205 were enrolled in the Junaluska Summer School, Inc., and Junaluska School of Religion at Lake Junaluska; and 102 were enrolled in the Medical School and the School of Nursing. There were 976 graduate students the first term, 187 the second, and 396 the third, admitted on the basis of Bachelor's degrees from 255 different colleges and universities. The total enrollment for the summer was drawn from thirty-nine states, as well as the District of Columbia, Puerto Rico, Canada, Cuba, and Japan. The larger enrollments were from North Carolina, Pennsylvania, Florida, West Virginia, Georgia, South Carolina, Virginia, New Jersey, Mississippi, Tennessee, New York, Maryland, and Kentucky in the order named. Public school teachers from thirty-three states were included in the total.

### CHANGES IN CALENDAR FOR THE SUMMER OF 1938

On account of the growth of the first term of Summer School, there will be no middle term for the summer of 1938. Apparently the first term registration will fill both dormitories and classrooms without making possible any registrations for the middle term.

Since the middle term has been discontinued, the first term instead of beginning Wednesday following the first Sunday in June will begin Monday, June 13, thereby making it possible for students who register in advance to enter classes as late as Friday morning, June 17. Students who enter late, however, are marked absent from classes held prior to their entrance, and the student who has more than four absences cannot receive full credit for the term's work. The five-day postponement in beginning the first term of Summer School means that the second cannot close until September 3. Since many students have found it exceedingly hard to complete twelve weeks' work in one term of Summer School, students are advised to register for only eleven weeks and take advantage of the early examinations closing August 27. This means that the student who enters the first term of Summer School and continues for five weeks of the last term, completes a full "summer quarter," or an exact one-third of the year now required for a Master's degree (see "New Requirements for Master's Degrees").

### ADMISSION

Applicants for admission must have completed a high-school course. As evidence of this, a teacher's certificate of grade as high as North Carolina elementary will be accepted from teachers with two or more

years of experience. Certificates and other credentials must be submitted to the Committee on the Summer School at the time of registration. Students who wish to enroll for graduate credit should submit their credits from other institutions to Dr. William H. Glasson, Dean of the Graduate School, before registration, preferably by mail.

### CREDITS

Professional credits towards teachers' certificates are granted by the various state boards of education, each in accordance with its own carefully planned rules. Teachers should consult the rules laid down by their State Board of Education before enrolling for certification credit. Any student, however, whose work is of such quality as to deny him credit toward a degree, fails to receive "professional" credit.

College credits are offered as follows: A course of five hours a week for six weeks counts for two semester-hours of credit, a course of seven and one-half hours a week for six weeks counts for three semester-hours of credit, and a course of ten hours a week for six weeks counts for four semester-hours of credit in Duke University. No student is allowed to take more than fifteen hours of work a week without the consent of the Director and of the instructor in whose department the student expects to do his major work.\* Except in the case of elementary laboratory science, in which eight semester-hours may be completed in seven weeks, the University will not accept credit beyond six semester-hours earned in one term toward the Bachelor's degree. Graduate students are not under any circumstances permitted to enroll for more than six semester-hours in a summer school of six weeks. They forfeit graduate credit by undertaking more than six semester-hours of work, even though part of the work may carry undergraduate credit only. A student of senior standing, however, may elect as many as eight semester-hours of such elementary-skill work as drawing, public school music, and the like, that do not carry college credit, or courses primarily for Freshmen and Sophomores, and obtain such professional credit as his State Department of Education will allow, not to exceed the maximum eight stated. The North Carolina State Department of Education disapproves of more than seven semester-hours in one term of six weeks.

The nature of the credit allowed for each course is indicated by the number of the course. Courses numbered 1-49 are primarily for Freshmen, or Freshmen and Sophomores; courses numbered 50-99 are ordinarily for Sophomores, or Sophomores and Juniors; courses numbered 100-199 are for Juniors and Seniors; courses numbered from 200-299 are for Seniors and graduates; and courses numbered from 300 up are for graduate students only and are of very limited enrollment. Courses numbered from 200 up are limited in enrollment to twenty-five students, and during the summer consist almost exclusively of graduate students.

Students registered for graduate courses in the Summer School, who desire to have their work credited toward the Master's degree, should also

\* No student liable to suspension from the University under its rules regarding failure is permitted to enroll in the Summer School.



register in the office of the Dean of the Graduate School during the first week of each summer term.

### NEW REQUIREMENTS FOR MASTER'S DEGREES

The Southern University Conference consisting of leading educational institutions of the South interested in graduate work has agreed that Master's degrees in summer school should represent a full year of residence as the term residence is understood during the academic year, exclusive of holidays and other interruptions of the academic year. This means a minimum period of thirty-three weeks and has these effects among others:

1. The extended period (of thirty-three weeks instead of thirty) makes it possible to give students preparing to write Master's theses a better opportunity to prepare for their thesis writing. In some departments research courses in which the student may do certain elementary preliminary work on his thesis have already been provided.

2. The period of thirty-three weeks conveniently divides into three periods of eleven weeks each, making it possible for the Summer School to begin nearly a week later and give the student a full period of eleven weeks well before the last day of August. For some time it has been hard to work in a full period of twelve weeks without serious inconvenience to many students by way of early entrance for the first term or getting away late from the last term. Under the new plan students are advised not to try more than eleven weeks (eleven semester-hours of credit) in one summer. However, for those students working under the old rules who wish to obtain twelve weeks' credit this summer, a full period of twelve weeks has been provided as announced in this bulletin.

3. The extended period makes possible a revision of the Master of Education degree in such a way as to abolish the thesis requirement and substitute work of probably greater value to the student. The requirements of the new Master of Education degree are set forth in the following paragraphs. It will be observed that they are probably more difficult than the old requirements, but the good student will probably have more when he completes them than he would have had under the old requirements including a thesis.

Students who have already started Master's degrees under regulations that have been enforced prior to 1938 will have the normal time in which to complete their degrees under the old plan. The new requirements are sufficiently different from the old to make it hard for students with more than twelve semester-hours of credit under the old plan to transfer to the new without loss. Anyone who transfers will be responsible for a minimum of thirty-three semester-hours, or a residence period of thirty-three weeks. (Under "Graduate Instruction" two pages further along in this bulletin, the details of the new requirements are set forth.) The principal changes in the requirements for the Master of Arts degree are the new minimum residence period of thirty-three weeks (five and one-half terms of six weeks, or three "quarters" of eleven weeks), the more



specific statement of undergraduate prerequisites (see the introductory statements under each department of instruction that offers a Master's sequence in Summer School), the requirement in most departments of a pre-thesis research course, in which, however, the student will ordinarily have some opportunity to get a start upon his thesis. This, in effect, gives the student nine weeks of supervision for his thesis at the same time that it clears up the status of some of the research courses.

The changes in the Master of Education requirements are more radical. They not only require a minimum residence period of three "quarters" or five and one-half summer terms of six weeks, but they abolish the thesis requirement heretofore made and substitutes the following work with final written examination upon each part:

(A) Four courses intended to help the student learn to read independently and obtain a basic understanding of education and the school, these courses being conducted on a plane analogous to Honors reading and described as follows:

**Education S300.**—The place of educational research, its methods of procedure, evaluation of results, special problems, etc.

**Education S304.**—The school as an institution—the place of the school in society, its history, and philosophy.

**Education S305.**—The nature, function, and organization of the curriculum.

**Education S317.**—The psychological principles of education—an advanced study of teaching, learning, and the learner.

(B) The work of the minor department, including any undergraduate prerequisite the student finds it necessary to study by supervised outside reading. (For example, many teachers of history and social studies have not had undergraduate work in government or economics or sociology, yet they wish to take their minor work in this missing department in order that they may have a better background for their teaching. Under the new plan, the Summer School can encourage this desirable strengthening of preparation in the subject matter by giving reading lists based on the preliminary undergraduate work in order that the student may have the background to go on with the minor of his choice. It would seem that a teacher of American history, for example, can by independent reading and a minimum of supervision obtain the elementary knowledge of American government necessary as a basis for minor work. It is the policy of the Summer School to encourage through the Master of Education degree independent reading as a basis for the minor as well as for the four "core" courses listed above.)

(C) Carefully defined major work in (a) public school administration, (b) public school supervision, (c) elementary education, or (d) secondary education, as the professional major. (It will be observed that the degree is intended for those who definitely desire their work for professional purposes. The Master of Education degree is, therefore, not offered with a major in educational psychology or history of education. Students in these two fields would be expected to enroll for the Master of Arts degree.)

It is apparent that students in education are offered a choice between the Master of Arts degree with a major in education and the Master of Education degree. Either degree may be completed within a minimum residence of three summer "quarters" of eleven weeks each, or five and a half summer terms of six weeks each. Both degrees are administered by the Graduate School, and only graduate courses are approved for the degrees. Students who subsequently decide to go on to the Doctor of Philosophy degree may have their credits for either Master's degree evaluated toward the higher degree.

### THESIS WRITING IN SUMMER SCHOOL

Since Duke University grants no Master of Arts degree except upon completion of a satisfactory thesis, every candidate for that degree who expects to complete his work in Summer School should as soon as possible after completing his first term of residence choose a field in which he desires to write a thesis and confer with some instructor offering graduate courses in that field. The following points should be kept clearly in mind when arrangements are made for thesis supervision:

1. The subject of the thesis must be approved by the instructor who undertakes the supervision. The instructor's decision as to whether the topic is suitable, or the student is prepared to develop it, or the instructor prepared to supervise it, is final.

2. A student may enroll for six semester-hours of residence credit towards a thesis or for less, in one term of six weeks. If he enrolls for only three semester-hours he may enroll also for a course of three semester-hours, but he cannot enroll for a total of more than six semester-hours of credit, including residence toward his thesis. Completion of six semester-hours of residence toward his thesis does not guarantee the satisfactory completion of the thesis, which must be acceptable to the instructor supervising it and to a committee representing the Council on Graduate Instruction. Students who do not complete their theses the first term they register for supervision have the privilege of registering a second term upon payment of regular dues, but are not required to do so. Since the numbers permitted to enroll in thesis seminars are strictly limited, such students are not permitted to register for a third term of supervision.

3. A student may either enroll in a specifically designated "thesis" course or, if his preparation meets the approval of the instructor in charge, attach himself to some regularly offered course in his field of study and report periodically to the instructor offering the course.

4. A student enrolling for thesis residence credit in regular course pays the same fees as other students during the summer of residence. At the time of graduation he pays the same diploma and commencement fees as other students and thesis supervision fee of \$25.00.

5. Students enrolling for thesis supervision during the Summer School are expected to complete their theses largely during the summer of enrollment or some subsequent summer term. The instructor with whom they enroll is not under obligation to give active supervision during the academic year, although instructors are willing to give a reasonable amount of attention to theses practically complete. Similarly, instructors in Duke University who are not teaching in the Summer School are not expected to undertake the supervision of theses written by summer school students.

6. Students of the academic year who do not complete theses begun prior to Summer School are not accepted for summer school enrollment unless their

subjects are in the field of some thesis seminar or other course offered by an instructor who recommends that such students be assigned to his supervision during the summer. Instructors who are employed for full time by the Summer School are specifically requested not to carry over into the summer thesis students whose subjects are not properly a part of work such instructors are offering in the Summer School.

### FEES

Teachers in active full-time service in schools and colleges are exempt from tuition fees for as many as four terms of six weeks in a period of six years. After their fourth term they pay regular tuition charges. All other students are charged a tuition fee of \$3.00 for each college-credit hour, or \$4.00 for each semester-hour, maximum tuition being \$24.00 for six weeks, or \$30.00 for courses running seven weeks. All students, teachers included, pay a registration fee of \$17.50 per term. Students in the sciences pay the laboratory fees required in regular term, and students writing theses pay the regular commencement charges at the time of receiving their degrees, and the special supervision fee of \$25.00.

Major expenses may be estimated as follows for each term:

Registration .....	\$17.50
Room-rent and board .....	47.50
Total major expenses to teachers .....	<u>\$65.00</u>

In the men's dormitories, as has been stated, the charge for rooms is one dollar less, making the total major expenses for occupants \$64.00. To these totals should be added the tuition fee of \$24.00 charged students other than teachers in the public schools and also charged teachers who have already received four terms exemption, about \$7.00 for books, and probably \$3.00 for miscellaneous expenditures. All claims for exemption from tuition should be filed at the time of registration.

## COURSES OF INSTRUCTION

### EXPLANATIONS AND ABBREVIATIONS

Classes meet daily five times per week for six weeks unless otherwise indicated. Classes that meet for sixty-minute periods are indicated as carrying two semester-hours of credit. Classes meeting eighty-five minute periods daily count for three semester-hours except where credits are stated otherwise. Courses are arranged alphabetically by departments. The course numbers are the same numbers used in describing courses in the regular term, with the letter "S" preceding; for example, Chemistry S1 would correspond to Chemistry 1 of the regular term.

N.B.—Different State Departments of Education grant professional credit for various courses in accordance with their own carefully defined rules. Every student should inquire carefully at or before registration as to what professional credit is allowed for each course in his state.

### THESIS COURSES FOR MASTER'S DEGREE CANDIDATES

It is important for every candidate for a Master of Arts degree to plan for his thesis as soon as possible after he completes his first summer school. (See suggestions for planning theses, pages 22-23, this bulletin.) Special attention is called to Education S234X, S300, S300X, S309, S322, S333X, Chemistry S275X, English S301, S308X, S314X, S327, S329, S331, French S340X, History S305, S306X, S308B, S315, S330, S333, Mathematics S390X, Physics S353X, Religion S365, Sociology S340, Spanish S371, and Zoology S353. A properly qualified student, however, may with the approval of the instructor and the head of his department attach himself to any graduate course for thesis supervision.

(This is a condensed description of courses. For full description, see Bulletin of the Summer Schools.)

### BIOLOGY

See courses listed under Botany and Zoology.

### BOTANY

S203 Plant Cytology.—3 s.h. Mr. ANDERSON

S210. Mosses and Ferns.—3 s.h. Mr. ANDERSON

S226.—Special Problems.—*Credit to be arranged.* STAFF

S359. Research in Botany.—*Credit to be arranged.* STAFF

The following courses are planned at the Marine Laboratory in Beaufort, N. C.:

S211. Structure and Classification of Algae.—6 s.h. Mr. BLOMQUIST

S225. Special Problems: Taxonomy, Ecology, Morphology.—*Credit to be arranged.*

S359. Research: Taxonomy, Morphology.—*Credit to be arranged.*

For particulars as to expense, etc., write the Director of the Summer School or Dr. H. L. Blomquist, Chairman of the Botany Department, Duke University, after April 15. If for any reason these courses tentatively offered at Beaufort cannot be given, other courses on the Duke campus will be substituted.

## CHEMISTRY

- S1. General Inorganic Chemistry.—4 s.h.  
MR. R. N. WILSON AND MR. HOBBS
- S2. General Inorganic Chemistry.—4 s.h.  
MR. R. N. WILSON AND MR. HOBBS
- S61. Qualitative Analysis.—4 s.h. MR. SAYLOR AND MR. STUCKEY
- S70. Quantitative Analysis.—4 s.h. (*Laboratory fee, \$7.00.*)  
MR. SAYLOR AND MR. COOPER
- S151. Organic Chemistry.—4 s.h. (*Laboratory Fee, \$7.00.*)  
MISS BROWN AND MR. PECK
- S152. Organic Chemistry.—Prerequisite: course S151. 4 s.h.  
MISS BROWN AND MR. BRIGHT
- S275X. Thesis Research.—2 to 8 s.h. MR. VOSBURGH AND MR. BIGELOW

## ECONOMICS

- S51. Principles of Economics.—3 s.h. MR. KEECH
- S52. Principles of Economics.—3 s.h. MR. LANDON
- S57-58. Principles of Accounting.—6 s.h. MR. BLACK
- S115. Economic Geography: Teachers' Course. MR. KEECH
- S116. Economic Geography and Industrial Organization.—3 s.h.  
MR. LANDON
- S131. The Economic History of Modern Europe.—3 s.h.  
MR. T. S. BERRY
- S132. The Economic History of the United States.—3 s.h.  
MR. T. S. BERRY
- S171-S172. Advanced Accounting.—6 s.h. MR. SHIELDS
- S231. The Economic History of Europe.—3 s.h. MR. R. S. SMITH
- S232. The Economic History of the United States.—3 s.h.  
MR. R. S. SMITH
- S240. Economic History.—3 s.h. MR. SPENGLER
- S241. History of Economic Thought, 1800-1914.—3 s.h. MR. SPENGLER
- S253. Labor Problems.—3 s.h. MR. DE VYVER
- S257. Social Insurance.—3 s.h. MR. DE VYVER

## EDUCATION

## PUBLIC SCHOOL ADMINISTRATION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Political Science, Economics, or Sociology. Candidates for the Master of Education under the new plan must take fifteen semester-hours of work from the courses specifically listed under this division.)

- S224. Current Problems in Public Education as Revealed through School Surveys.—3 s.h. MR. GAMBLE



- S234. Secondary School Organization and Administration.—3 s.h.  
 MR. P. H. GWYNN (*first term*)  
 MR. BOYER (*second term*)
- S293. Problems of the Teaching Personnel.—3 s.h. MR. OVERN
- S323. Public School Finance.—3 s.h. MR. HILL
- S333X. Thesis Seminar: Research in School Administration.—*Credit to be arranged.* MR. PROCTOR
- S343. State and County School Administration.—3 s.h. MR. PROCTOR
- S363. City School Organization and Administration.—3 s.h. MR. HILL
- S373. Business Problems of School Administration.—3 s.h. MR. OVERN

## PUBLIC SCHOOL SUPERVISION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Psychology or an approved combination with Educational Psychology, or in Sociology. Master of Education candidates are permitted as many as nine semester-hours of work in their minor, but take the remaining twelve or fifteen, if minor is only six hours, from courses specifically described or listed under Supervision.)

- S209. Statistical Methods in Education.—3 s.h. MR. ODELL
- S222. The Curriculum and Materials of the Elementary Grades.—3 s.h.  
 MR. HILLMAN

S224. Current Problems in Public Education as Revealed through School Surveys.—3 s.h. MR. GAMBLE

- S232. Elementary School Supervision.—3 s.h. MR. OVERN
- S233. Administrative Pupil Accounting.—3 s.h. MR. PROCTOR
- S233A. Pupil Personnel Problems and Procedure.—3 s.h. MR. OVERN
- S273. Problems of High-School Supervision.—3 s.h.

MR. HIGHSMITH (*first term*)  
 MR. J. M. GWYNN (*second term*)

S287. Problems of Mentally and Educationally Retarded Children.—3 s.h.  
 MR. WALLIN

S288. Problems of Mental Hygiene and Education.—3 s.h. MR. WALLIN

S289. Character and Personality Testing.—Prerequisite: course S258 or six semester-hours of other work in educational psychology. 3 s.h.  
 MR. ODELL

S293. Problems of the Teaching Personnel.—3 s.h. MR. OVERN

S305. The Nature, Function, and Reorganization of the Curriculum.—3 s.h. MR. CARR

## EDUCATIONAL PSYCHOLOGY (GRADUATE COURSES)

(The Master of Education degree is not offered in this division. Master's candidates should choose Psychology for their minor subject. It will be observed that certain of the courses listed under Educational Psychology are also listed under Supervision, Secondary Education, or Elementary Education.)

S208. Mental Tests and Applications.—Prerequisite: course S258 or six semester-hours of other work in educational psychology or psychology. 3 s.h.  
 MR. ODELL



S212. Psychology of the Elementary School Subjects.—3 s.h.

S216. Psychological Principles of Secondary Education.—3 s.h.

S217. Advanced Educational Psychology.—3 s.h.

MR. EASLEY

(Students expecting to enter candidacy for a Master's degree with major in Educational Psychology should enroll in this course their first summer.)

S218. Educational Implications of Genetic Psychology.—Prerequisite: six semester-hours of psychology or educational psychology. 3 s.h.

MR. BROWNELL

S237. Investigations in Reading.—3 s.h.

MR. CARR

S247A. Investigations in Arithmetic: Primary Section.—3 s.h.

MISS JOHN

S247B. Investigations in Arithmetic: Grammar Grades Section.—3 s.h.

MISS JOHN

S257. Investigations in Language and Elementary School English.—3 s.h.

MR. JOHNSON

S258. Educational Measurements.—3 s.h.

MR. BROWNELL (*first term*)

MR. ODELL (*second term*)

S287. Problems of Mentally and Educationally Retarded Children.—3 s.h.

MR. WALLIN

S288. Problems of Mental Hygiene and Education.—3 s.h.

MR. WALLIN

S289. Character and Personality Testing.—3 s.h.

MR. ODELL

S300. Introduction to Educational Research.—3 s.h.

MR. SCATES

S300X. Educational Research.—3 s.h.

MR. SCATES

S309. Research in Educational Psychology.—3 s.h.

MR. BROWNELL

#### SECONDARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should elect minor work in their teaching subject, or in Psychology or Sociology. Master of Education candidates are required to elect their minor work in their teaching subject, and all of their work in Education must come from courses listed in this division.)

S205. Curriculum Problems in Secondary Education.

MR. CHILDS AND MRS. HAWKES

S206. Sociological Foundations of Secondary Education.—3 s.h.

MR. HOLLIS

S216. Psychological Principles of Secondary Education.

S226. Teaching of History and the Social Studies.—3 s.h.

MRS. HAWKES

S234. Secondary School Organization and Administration.—3 s.h.

MR. P. H. GWYNN (*first term*)

MR. BOYER (*second term*)

S234X. Thesis Seminar in Secondary Education.

MR. CHILDS

S236. Problems in the Teaching of English in the Secondary School.—3 s.h.

MR. JOHNSON

S246. The Teaching of High-School Mathematics.—3 s.h.

MR. W. W. RANKIN

S266. The Teaching of High-School French.—3 s.h.

MR. WEBB

S276. The Teaching of High-School Science.—Prerequisite: at least eighteen semester-hours of science in college. 3 s.h.

MR. SLAY

S288. Problems of Mental Hygiene and Education.—3 s.h.

MR. WALLIN

#### ELEMENTARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should take their minor work of six semester-hours in Psychology, Educational Psychology, or an approved combination of the two, or in Child Welfare and Development—wholly in Sociology, or partly Sociology and Psychology, or Educational Psychology if a satisfactory combination can be worked out. Master of Education candidates in this division must take fifteen semester-hours of work described or listed under Elementary Education.)

S207. Technique of Teaching.—3 s.h.

S212. Psychology of the Elementary School Subjects.—3 s.h.

S218. Educational Implications of Genetic Psychology.—3 s.h.

MR. BROWNELL

S222. The Curriculum and Materials of the Elementary Grades.—3 s.h.

MR. HILLMAN

S232. Elementary School Supervision.—3 s.h.

MR. OVERN

S237. Investigations in Reading.—3 s.h.

MR. CARR

S247A. Investigations in Arithmetic: Primary Section.—3 s.h.

MISS JOHN

S247B. Investigations in Arithmetic: Grammar Grades Section.—3 s.h.

MISS JOHN

S257. Investigations in Language and Elementary School English.—3 s.h.

MR. JOHNSON

S258. Educational Measurements.—3 s.h.

MR. BROWNELL (*first term*)

MR. ODELL (*second term*)

S287. Problems of Mentally and Educationally Retarded Children.—3 s.h.

MR. WALLIN

S288. Problems of Mental Hygiene and Education.—3 s.h.

MR. WALLIN

S322. Seminar in Elementary Education.—3 s.h.

MR. CARR

#### UNDERGRADUATE COURSES

(By permission Seniors may enter graduate courses numbered below 300. Attention is called to the fact that toward the A.B. degree not more than six semester-hours of methods courses are allowed to count.)

S54. Introductory Course in the History of Education.—3 s.h.

MR. ESKRIDGE

S58. The Learning Process.—3 s.h.

MR. ESKRIDGE

S68. Mental Hygiene of the School Child.—3 s.h.

MR. GODARD (*first term*)

MR. MCEWEN (*second term*)

- S83. Current Trends in American Public-School Organization.—3 s.h.  
 MR. CURTIS (*first term*)  
 MR. BARDEN (*second term*)
- S101. Introduction to Teaching.—3 s.h. MR. HARRIS
- S103. School Organization and Administration for the Classroom Teacher.—3 s.h.  
 MR. HARRIS (*first term*)  
 MR. BARDEN (*second term*)
- S104. History of Education in the United States.—3 s.h. MR. AGNEW
- S105. Introductory Course in Educational Sociology.—3 s.h.  
 MR. AGNEW
- S111. Primary Methods in Language and Reading.—2 s.h.  
 MISS MICHAELS
- S117. Analysis of Study and Study Habits in the Elementary Subjects.—3 s.h.  
 MR. CURTIS
- S118. Educational Implications of Genetic Psychology.—3 s.h.  
 MR. WATSON
- S122. The Teaching of Arithmetic in the Primary Grades.—2 s.h.  
 MISS DEANS
- S127. The Teaching of Arithmetic in the Grammar Grades.—3 s.h.  
 MISS DEANS
- S136. The Teaching of High-School English.—3 s.h. MR. A. C. JORDAN
- S142. Children's Literature: Primary Section.—2 s.h. MISS MICHAELS
- S147. Children's Literature: Grammar Grade Section.—2 s.h.  
 MISS MICHAELS
- S158. Educational Measurements.—3 s.h. MR. McEWEN
- S161. Social Studies in the Grammar Grade.—3 s.h. MRS. PORTER
- S162. Social Studies in the Primary Grades.—3 s.h. MRS. PORTER
- S167. Materials and Methods in the Teaching of Science in the Elementary Schools.—3 s.h. MR. SLAY
- S182. The Teaching of Geography.—3 s.h. MR. GODARD
- S192. Materials and Methods in the Primary Grades.—3 s.h.  
 MISS BASON (*first term*)  
 MISS MARKS (*second term*)
- S197. Materials and Methods in the Grammar Grades.—3 s.h.  
 MISS BASON (*first term*)  
 MISS MARKS (*second term*)

#### PUBLIC SCHOOL ART AND MUSIC

- A. Integrated Art in the Public School.—3 *points professional credit only.*  
 MRS. ALSTON (*first term*)  
 MRS. MASON (*second term*)
- B. Industrial Art in the Public School.—3 *points professional credit only.*  
 MRS. ALSTON
- C. Public School Music.—3 *points professional credit only.*  
 MRS. TWADDELL

## HYGIENE AND HEALTH EDUCATION

S112. Personal and School Hygiene.—3 s.h. MISS GARDINER

S132A. Materials and Methods in Health Education: Primary Grades.—  
3 s.h. MR. AYCOCK

S132B. Materials and Methods in Health Education: Grammar Grades.—  
3 s.h. MR. AYCOCK

## ENGINEERING

C. E. S10. Plane Surveying.—3 s.h.  
MR. BIRD, MR. W. H. HALL, AND MR. WILLIAMS

C. E. S110. Plane Surveying.—3 s.h. MR. BIRD

## ENGLISH

Master's candidates in English are required to complete at least three semester-hours in Chaucer or certain other designated courses. Master's candidates who have completed as many as twelve semester-hours of graduate work should also take the bibliography course, S301, at their earliest opportunity.

S1. English Composition.—3 s.h. MR. FITZGERALD

S2. English Composition.—3 s.h. MR. FITZGERALD

S53. English Composition.—3 s.h. MR. A. C. JORDAN

S59. Contemporary British and American Drama.—3 s.h. MRS. WHITE

S60. Contemporary British and American Fiction.—3 s.h. MRS. WHITE

S64. A Survey of English Poetry, 1744-1900.—3 s.h. MR. SUGDEN

S107. Journalism.—3 s.h. MR. SUGDEN

S117. Acting.—3 s.h. MR. WEST

S119. History of the Theater.—3 s.h. MR. WEST

S120. History of the Theater.—3 s.h. MR. WEST

S123. Shakespeare.—3 s.h. MR. MITCHELL

S124. Shakespeare.—3 s.h. MR. MITCHELL

S125. Early Nineteenth-Century Literature.—3 s.h. MR. PATTON

S126. Early Nineteenth-Century Literature.—3 s.h. MR. PATTON

S137. American Literature prior to 1850.—3 s.h. MR. JARRELL

S138. American Literature, 1850-1900.—3 s.h. MR. MIMS

S142. The Teaching of High-School English.—3 s.h. MR. A. C. JORDAN

S145. English Literature, 1832-1900.—3 s.h. MR. SANDERS

S146. English Literature, 1832-1900.—3 s.h. MR. SANDERS

S147. American Literature since 1900.—3 s.h. MR. JARRELL

S211A. Seventeenth-Century Prose.—3 s.h. MR. PARKER

S212A. Seventeenth-Century Non-Dramatic Poetry.—3 s.h. MR. PARKER

S215. Elizabethan Drama.—3 s.h.	MR. GILBERT
S216. The English Drama in the Reign of James I.—3 s.h.	MR. B. MAXWELL
S218. Milton: Paradise Lost, Paradise Regained, and Samson Agonistes.—3 s.h.	MR. PARKER
S219. The Age of Pope.—3 s.h.	MR. IRVING
S220. Studies in English Literature, 1750-1800.—3 s.h.	MR. ALLEN
S221. English Drama, 1660-1780.—3 s.h.	MR. WARD
S223. Survey in Early Nineteenth-Century Literature.—3 s.h.	MR. SOLVE
S228. Literary Criticism.—3 s.h.	MR. GILBERT
S233. Studies in American Poetry since 1870.—3 s.h.	MR. MIMS
S235A. Studies in Dryden.—3 s.h.	MR. WARD
S236. Queen Anne Prose.—3 s.h.	MR. ALLEN
S238. Shakespeare's Later Plays.—3 s.h.	MR. B. MAXWELL
S261. Southern Critical Thought.—3 s.h.	MR. PARKS
S268. Milton.—3 s.h.	MR. PARKER
S301. Bibliography and Methods of Research.—3 s.h.	MR. JENKINS
S308X. Thesis Seminar in American Literature.—3 s.h.	MR. HUBBELL
S314X. Thesis Seminar: Byron and Shelley.—3 s.h.	MR. WHITE
S323. Studies in Coleridge.—3 s.h.	MR. GRIGGS
S324. Studies in Shelley.—3 s.h.	MR. SOLVE
S325. The Regency and Early Victorian Period.—3 s.h.	MR. GRIGGS
S327. Seminar in Southern Literary Criticism.—3 s.h.	MR. PARKS
S329. Seminar in Sixteenth- and Seventeenth-Century English Literature.—3 s.h.	MR. GILBERT
S331. Seminar in the Age of Pope.—3 s.h.	MR. IRVING

### FORESTRY

Candidates for the Bachelor of Science degree with a major in Forestry are required to take Civil Engineering S110 (Plane Surveying) in Summer School at the close of their Junior year. This course is listed under Engineering, page 42, Bulletin of the Summer School. Candidates in Forestry are also expected to take the following courses after completing the required work in Engineering:

S150. Forest Surveying.—Prerequisites: Civil Engineering 110, Plane Surveying, or equivalent. 5 s.h.	MR. MAUGHAN
S151. Forest Mensuration.—4 s.h.	MR. SCHUMACHER

### FRENCH

S1. Elementary French.—3 s.h.	MR. DOW
S2. Elementary French.—3 s.h.	MISS RAYMOND

S3. French Prose.—Prerequisite: French S1-S2 or two years of high-school French. 3 s.h. MR. DAVIS

S4. French Prose.—Prerequisite: French S3. 3 s.h. MR. DAVIS

S51. Introduction to French Literature.—Prerequisite: French S3-S4 or equivalent. 3 s.h. MR. BRIDGERS

S52. Introduction to French Literature.—Prerequisite: French S51. 3 s.h. MR. BRIDGERS

S211. Nineteenth-Century French Drama.—3 s.h. MR. COWPER

S219. Materials and Methods.—3 s.h. MR. WEBB

S226. The French Short Story of the Nineteenth Century.—3 s.h. MR. B. R. JORDAN

S229. Survey of Eighteenth-Century Literature.—3 s.h. MR. COWPER

S233. Main Currents of Modern French Literature.—3 s.h. MR. WALTON

S240. Survey of French Civilization.—3 s.h. MR. WEBB

S340X. Seminar in Nineteenth-Century French Literature.—3 s.h. MR. B. R. JORDAN

## GEOGRAPHY

See courses listed under Economics.

## GEOLOGY

S175. Summer Field Course in Geology.—Prerequisite: Geology 51-52 or its equivalent, and the permission of the instructor. 4 s.h. MR. W. BERRY

## GERMAN

S1. Elementary German.—3 s.h. MR. W. C. MAXWELL

S2. Elementary German.—3 s.h. MR. W. C. MAXWELL

S3. Intermediate German.—3 s.h. MR. F. E. WILSON

S4. Intermediate German.—3 s.h. MR. F. E. WILSON

S115. German Drama of the First Half of the Nineteenth Century.—3 s.h. MR. KRUMMEL

S116. German Drama of the Second Half of the Nineteenth Century.—3 s.h. MR. KRUMMEL

## GOVERNMENT

See courses listed under Political Science.

## HISTORY

S51. Modern and Contemporaneous Europe.—3 s.h. MR. McCLOY

S52. Modern and Contemporaneous Europe.—3 s.h. MR. McCLOY

S91. Political and Social History of the United States to 1830.—3 s.h.  
MR. MABRY (*first term*)  
MR. FLANDERS (*second term*)



- S92. Political and Social History of the United States, 1830-1900.—3 s.h.  
 MR. MABRY (*first term*)  
 MR. FLANDERS (*second term*)
- S101. Development of Western European Civilization to about 800 A.D.—  
 3 s.h. MR. MANCHESTER
- S102. Development of Western European Civilization from 800 to 1563  
 A.D.—3 s.h. MR. MANCHESTER
- S203. The Union, Confederacy, and Reconstruction.—3 s.h.  
 MR. RAMSDALL (*first term*)  
 MR. WOODY (*second term*)
- S208B. Studies in Social History of the United States since 1860.—3 s.h.  
 MR. SHRYOCK
- S210. Political and Constitutional History of the United States, 1820-  
 1850.—3 s.h. MR. C. H. SMITH
- S213. Recent History of the United States.—3 s.h. MR. COULTER
- S217. Europe, 1870-1914.—3 s.h. MR. HALE
- S220. History of the Working Classes in Europe since the Industrial  
 Revolution.—3 s.h. MR. CARROLL
- S224. Medieval Institutions and Culture.—3 s.h. MRS. QUINN
- S233. The Cultural and Institutional History of Colonial Hispanic Amer-  
 ica.—3 s.h. MR. LANNING
- S237. Social and Intellectual Development of the Old South.—3 s.h.  
 MR. SYDNOR
- S250. The American Colonies, 1689-1783.—3 s.h. MR. LEFLER
- S268. Recent Economic History of the United States, 1860-1925.—3 s.h.  
 MR. LEFLER
- S305. Seminar in the History of England and the British Empire.—3 s.h.  
 MR. LAPRADE
- S306X. Thesis Seminar in Southern History. MR. SYDNOR
- S308B. Seminar: Social History of the United States since 1860.—3 s.h.  
 MR. SHRYOCK
- S315. Seminar in Southern History.—3 s.h. MR. RAMSDALL (*first term*)  
 MR. WOODY (*second term*)
- S317. Seminar in Modern European History.—3 s.h.  
 MR. CARROLL (*first term*)  
 MR. HALE (*second term*)
- S324. Seminar: Medieval Institutions and Culture (1100-1400).—3 s.h.  
 MRS. QUINN
- S325. British Nationality and Public Opinion.—3 s.h. MR. LAPRADE
- S330. Seminar in Jacksonian Democracy, 1824-1837.—3 s.h.  
 MR. C. H. SMITH
- S333. Studies in Hispanic-American History and Related Fields.—3 s.h.  
 MR. LANNING

## MATHEMATICS

- S100. Integral Calculus.—3 s.h. Mr. W. W. RANKIN
- S204. Teaching of Mathematics.—3 s.h. Mr. W. W. RANKIN
- S228. Number Theory.—Prerequisite: integral calculus. 3 s.h.  
Mr. CARLITZ
- S231. Differential Equations.—Prerequisite: integral calculus. 3 s.h.  
Mr. ELLIOTT
- S235. Modern Algebra.—Prerequisite: differential calculus. 3 s.h.  
Mr. THOMAS
- S236. Modern Algebra.—Prerequisite: differential calculus. 3 s.h.  
Mr. THOMAS
- S251. Infinite Series.—Prerequisite: integral calculus. 3 s.h.  
Mr. ELLIOTT
- S259. Solid Analytic Geometry.—Prerequisite: differential calculus. 3 s.h.  
Mr. THOMAS
- S281. Elementary Potential Theory.—Prerequisite: integral calculus.  
3 s.h. Mr. GERGEN
- S331. Complex Variable.—Prerequisite: courses S239, S240 (advanced  
calculus) or the equivalent. 3 s.h. Mr. GERGEN
- S332. Complex Variable.—Prerequisite: S331 or the equivalent. 3 s.h.  
Mr. CARLITZ
- S390X. Thesis Seminar.—*Thesis credit only.* 3 s.h. Mr. THOMAS

## PHYSICS

- S1-2. General Physics.—8 s.h.  
Mr. CARPENTER, Mr. HOPKINS, AND Mr. RYERSON
- S203. Analytical Mechanics.—3 s.h. Mr. MOUZON
- S204. Analytical Mechanics.—3 s.h. Mr. MOUZON
- S353X. Thesis Seminar.—2 to 6 s.h.  
Mr. CONSTANT, Mr. MOUZON, AND Mr. NIELSEN

## POLITICAL SCIENCE

- S21. Principles of Government.—3 s.h. Mr. GIBSON
- S22. Governmental Problems in International Relations.—3 s.h.  
Mr. GIBSON
- S61. American Government and Politics.—3 s.h.  
Mr. LINEBARGER (*first term*)  
Mr. SIMPSON (*second term*)
- S62. American Government and Politics.—3 s.h.  
Mr. LINEBARGER (*first term*)  
Mr. SIMPSON (*second term*)
- S223. Political Thought to the Seventeenth Century.—3 s.h.  
Mr. R. R. WILSON

S224. Modern Political Theory.—3 s.h.	MR. R. R. WILSON
S225. Comparative Government.—3 s.h.	MR. COLE
S226. Comparative Government.—3 s.h.	MR. COLE
S230. American Political Institutions.—3 s.h.	MR. R. S. RANKIN
S292. Municipal Administration.—3 s.h.	MR. R. S. RANKIN

### PSYCHOLOGY

S101. Introduction to Psychology: General Principles of Mental Activity and Growth.—3 s.h.	MR. McCULLOCH
S201. Social Psychology.—3 s.h.	MR. ADAMS
S204. Psychology of Motivation.—3 s.h.	MR. ZENER
S216. Comparative Psychology.—3 s.h.	MR. ADAMS
S226. Contemporary Schools of Psychology.—3 s.h.	MR. ZENER

### RELIGION

S51. The History of the Hebrew People.—3 s.h.	MR. MYERS
S52. New Testament Literature.—3 s.h.	MR. MYERS
S165. Religious Drama.—3 s.h.	MR. SPENCE
S168. Religious Drama: Construction and Production.—3 s.h.	MR. SPENCE
S261. Foundations of Religious Education.—3 s.h.	MR. H. S. SMITH
S281. The Nature and Early Development of Religion.—3 s.h.	MR. CANNON
S286. The Religions of the Far East.—3 s.h.	MR. CANNON
S365. Studies in Character Education and the State.—3 s.h.	MR. H. S. SMITH

### SOCIOLOGY

S101. General Sociology.—3 s.h.	MR. ELLWOOD ( <i>first term</i> ) MR. PORTERFIELD ( <i>first and second terms</i> )
S112. Introduction to Child Welfare.—3 s.h.	MR. PORTERFIELD
S114. Race Relations.—3 s.h.	MR. THOMPSON
S205. Social Pathology.—3 s.h.	MR. PORTERFIELD
S206. Criminology.—3 s.h.	MR. JENSEN
S212. Child Welfare.—3 s.h.	MR. JENSEN
S218. Cultural Anthropology.—3 s.h.	MR. ELLWOOD
S220. Rural Sociology.—3 s.h.	MR. THOMPSON

## SPANISH

- S1. Elementary Spanish.—3 s.h. MR. QUINN
- S2. Elementary Spanish.—3 s.h. MR. QUINN
- S65. Introduction to Modern Spanish Literature.—3 s.h. MR. AVILÉS
- S66. Introduction to Spanish Literature of the Golden Age.—3 s.h.  
MR. AVILÉS
- S267. The Early Spanish Novel.—3 s.h. MR. LUNDEBERG
- S268. Spanish American Literature of the Colonial Period.—3 s.h.  
MR. AVILÉS
- S269. Literature of the Gaucho.—3 s.h. MR. AVILÉS
- S371. Seminar in the Modern Spanish Novel.—3 s.h. MR. LUNDEBERG

## ZOOLOGY

- S219 or S353. Special Problems, Research. MR. CUNNINGHAM  
MR. F. G. HALL
- S321-322. General Physiology.—6 s.h. MR. F. G. HALL
- The following courses are planned at the Marine Laboratory in Beaufort, N. C.:*
- S207. Marine Zoology.—6 s.h. MR. PEARSE, MR. GRAY
- S219. or S353. Special Problems, Research:  
(e) Ecology, Behavior, Parasitology. MR. PEARSE
- (f) Anatomy, Physiology, Entomology. MR. GRAY
- S355. Biological Seminar. MR. BLUMQUIST, MR. GRAY, MR. PEARSE

# JUNALUSKA SUMMER SCHOOL, INC.

(AFFILIATED WITH DUKE UNIVERSITY)

and

JUNALUSKA SCHOOL OF RELIGION

LAKE JUNALUSKA, N. C.

PAUL NEFF GARBER, A.B., A.M., Ph.D.

• DIRECTOR

## FACULTY

AGNEW, DONALD CHARLES; A.B., Park College; A.M., Ph.D., Duke;  
EDUCATION (Coker College).

BARDEN, JOHN GLENN; A.B., University of North Carolina; A.M.,  
Columbia; Columbia, 1930-31; EDUCATION (Duke University).

BILLINGS, WILLIAM DWIGHT; A.B., Butler; A.M., Ph.D., Duke;  
BOTANY (Duke University).

CLARK, ELMER TALMADGE; A.B., Birmingham-Southern College; A.M.,  
George Peabody College; B.D., S.T.D., Temple; LL.D., Southern College;  
RELIGION (Assistant Secretary, Board of Missions, Methodist Episcopal  
Church, South).

CLARK, KENNETH WILLIS; A.B., Yale; B.D., Rochester; Ph.D., Uni-  
versity of Chicago; RELIGION (Duke University).

COPELAND, LEWIS CAMPBELL; A.B., Texas Christian; A.M., Univer-  
sity of Chicago; Duke, 1937-38; SOCIOLOGY (Duke University).

CRUM, MASON; A.B., Wofford College; A.M., Ph.D., University of South  
Carolina; RELIGION (Duke University).

DUNSTAN, ROBERT TAYLOE; A.B., Duke; A.M., Ph.D., University of  
Wisconsin; SPANISH (Greensboro College).

FITZGERALD, WILLIAM STONE; A.B., Vanderbilt; A.M., Harvard;  
Duke, 1934-37; ENGLISH (Duke University).

GARBER, PAUL NEFF; A.B., Bridgewater College; A.M., Ph.D., Univer-  
sity of Pennsylvania; RELIGION (Duke University).

McEWEN, NOBLE RALPH; A.B., Birmingham-Southern College; A.M.,  
Duke; Duke, 1930-32; EDUCATION (Salem College).

OOSTING, HENRY JOHN; A.B., Hope College; M.S., Michigan State;  
Ph.D., Minnesota University; BOTANY (Duke University).

ORMOND, JESSE MARVIN; A.B., Duke; B.D., Vanderbilt; RELIGION  
(Duke University).

OWENS, HENRY GRADY; A.B., University of North Carolina; A.M.,  
New York University; EDUCATION (Salem College).

WELFLING, WELDON WOODROW; A.B., Swarthmore College; A.M., Princeton; ECONOMICS (Duke University).

WIGGINS, ROBERT LEMUEL; A.B., Emory; A.M., Vanderbilt; Ph.D., University of Virginia; ENGLISH (Wesleyan College).

### BUSINESS MANAGER

JAMES R. BOYD,  
Waynesville, North Carolina.

### CALENDAR, REGISTRATION, AND ADMISSION

The Junaluska Summer School, Inc., and the Junaluska School of Religion will open June 10 and close July 22. Recitations will be held five days in the week, all Mondays except June 13 being holidays. Monday, July 4, will be observed as Independence Day.

Thursday, June 9, is reserved for the registrations of students from Haywood County; Friday, June 10, is registration day for all other students. Regular classes will meet at 8:15 Saturday morning, and recitation work will begin at once.

Certificates of high-school graduation and other credentials should be submitted to the director at the time of registration.

### JUNALUSKA SCHOOL OF RELIGION

The eleventh session of the Junaluska School of Religion, which is conducted under the joint management of Duke University and the Board of Christian Education with the co-operation of the Board of Missions and other boards of the Methodist Episcopal Church, South, will be conducted as the Department of Religion in the Junaluska Summer School for the summer of 1938, its opening and closing dates being the same as for the other departments. In addition to the undergraduate credits offered by the other departments, Junaluska School of Religion will offer credits counting toward the B.D. degree. The work in Religion is designed for pastors, church workers, missionaries, and students who desire to fit themselves the better for their work or to obtain credits looking toward the securing of university degrees.

### COURSES OFFERED

Professional and undergraduate courses are offered for teachers in elementary schools, teachers of primary grades and of grammar grades, and teachers of high-school subjects, for freshmen and sophomore students in colleges and for students desiring somewhat more advanced work in the field of religion.

For qualified college students, instruction will be offered in botany, economics, education, English, sociology, Spanish, and religion. Credit is allowed toward the A.B. degree at Duke University for these courses, credit toward the A.M. degree for the course in field botany, and credit toward the B. D. degree for the advanced courses in religion.



## COURSES IN FIELD BOTANY

Special courses in field botany will be offered to public school teachers of nature study, high-school teachers of botany and biology, and to qualified college students.

## FEES AND EXPENSES

Tuition charge for college students other than teachers is \$10.00. Teachers are exempt from tuition, as are also ministerial students who register in the Junaluska School of Religion. Expenses may therefore be estimated by teachers and School of Religion students as follows:

	Low	High
Registration .....	\$20.00	\$20.00
Room and Board .....	50.00	66.00
Library and Recreation Fee .....	2.00	2.00
	<hr/> \$72.00	<hr/> \$88.00

To this should be added about \$5.00 for books and probably \$5.00 for miscellaneous expenses, besides the tuition charge for students other than teachers. Since Haywood County contributes toward the registration fees of its teachers, Haywood County teachers pay only \$8.00 of the total registration fee.

## COURSES OF INSTRUCTION

*(This is a condensed description of courses. For full description, see Bulletin of the Summer Schools.)*

## BOTANY

S52. Introductory Field Botany:	MR. BILLINGS
S225. Field Botany.—4 or 6 s.h.	MR. OOSTING
S226. Special Problems.—2 to 6 s.h.	MR. OOSTING

## ECONOMICS

S131. The Economic History of Modern Europe.	MR. WELFLING
S132. The Economic History of the United States.	MR. WELFLING

## EDUCATION

S52. Materials and Methods in Nature Study.	MR. BILLINGS
S58. The Learning Process.	MR. OWENS
S68. Mental Hygiene of the School Child.	MR. AGNEW

**S83. Current Trends in American Public School Organization:**

MR. BARDEN

**S103. School Organization and Administration for the Classroom Teacher.**

MR. BARDEN

**S117. Analysis of Study and Study Habits in the Elementary School Subjects.**

MR. AGNEW

**S121. Grammar Grade Methods in Reading and Language.**

MR. OWENS

**S158. Educational Measurements.**

MR. MCEWEN

**S182. The Teaching of Geography.**

MR. MCEWEN

**ENGLISH****S55. Prose Masterpieces:**

MR. FITZGERALD

**S64. A Survey of English Poetry:**

MR. WIGGINS

**S124. Shakespeare's Tragedies.**

MR. FITZGERALD

**S138. American Literature:**

MR. WIGGINS

**RELIGION****S210. The Religion of Jesus:**

MR. K. W. CLARK

**S215. The Development of Early Christianity.**

MR. K. W. CLARK

**S235. Modern Religious Leaders.**

MR. GARBER

**S251. The Rural Church and Sociology.**

MR. ORMOND

**S281. Missions in the Modern World.**

MR. E. T. CLARK

**FOR UNDERGRADUATES ONLY****S129. Character Problems:**

MR. CRUM

**S170. Religion and the Modern Home:**

MR. CRUM

**SOCIOLOGY****S101. General Sociology:**

MR. COPELAND

**S142. The Family and Marriage:**

MR. COPELAND

**SPANISH****S3. Intermediate Spanish.**

MR. DUNSTAN

**S4. Intermediate Spanish.**

MR. DUNSTAN

## THE SCHOOL OF FORESTRY

Beginning with the academic year 1938-1939 a program of work will be available in the School of Forestry for the professional degree, Master of Forestry, in addition to the work in forestry already available through the Graduate School of Arts and Sciences for the Master of Arts and Doctor of Philosophy degrees.

For details see *Bulletin of the School of Forestry* obtainable from *The Dean of the School of Forestry*, Duke University, Durham, North Carolina.

# DUKE UNIVERSITY

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## DEGREES AND HONORS CONFERRED (1938)

### ROLL OF STUDENTS (1937-1938)

TRINITY COLLEGE

THE WOMAN'S COLLEGE

THE GRADUATE SCHOOL OF ARTS AND SCIENCES

THE SCHOOL OF LAW

THE SCHOOL OF MEDICINE

THE SCHOOL OF NURSING

THE SCHOOL OF RELIGION

## DEGREES AND HONORS CONFERRED (1938)

### A.B. DEGREE

Abels, Elizabeth Josephine	Caroon, William Joseph, Jr.
Adams, Margaret Louise	Carrigan, Margaret Helen
Adcock, John Frederick	Carson, William Longworth
Almand, Alexander James	Carter, Mary Elizabeth
Ambler, Wayne Harper	Caton, Mary Beth
Anderson, Albert Lewis	Chaffin, Mabel Duo
Anderson, Annie Laurie	Chapman, Lucy Lake
Anderson, Mary	Clark, Harry Vincent, Jr.
Anderton, James Aloysius	Clark, Richard Stephen
Arnold, Robert Hickman	Clarke, Erin O'Neal
Ashworth, Geraldine	Clay, Albert Greene
Auld, Fan	Clay, Charles Stafford
Baggs, Genevieve Clem	Clover, Carl Lee
Bailey, James Eugene	Cockrell, Margaret Helen
Bally, George	Cockrell, Nancy Steele
Bane, David Morgan	Coe, John Douglas
Barnwell, Pauline Lee	Coen, Thomas Graham, Jr.
Barry, Edward Earl, Jr.	Coffman, Julia Gray
Beall, Patricia	Colson, James Thomas
Beck, Willard Sperring	Cook, Ethel Neal
Beebe, Estella Thomson	Cooke, Russell Yale
Belding, Gordon	Cooper, Samuel Arthur
Bender, Mary Charlotte	Cope, Jane Hissem
Benton, Doris Annette	Corbett, Waddell Albert
Bierstein, Joseph Francis, Jr.	Corbett, William Horace
Bierstein, Marie Therese	Cornett, Baron Hale
Bishop, Virginia Eleanor	Council, Mary Frances
Blackburn, Linwood Earl	Courtney, William Marshall
Bliss, Joan	Couse, Ruth Knight
Boeker, Robert Otto	Cousins, James Franklin
Bogert, Elizabeth Jane	Cox, Nathan
Bowers, Lawrence Ray	Cozart, David Lester, Jr.
Bowman, Thomas Edward, Jr.	Cranford, Rosa Draughon
Bradsher, Arthur Brown	Crannell, Wilbur Harrison, Jr.
Bransford, Paul Wesley	Cross, Guy E., Jr.
Braznell, Virginia Marie	Cure, Jack Christie
Bremer, Roger Edward	Curtis, Paul Makepeace
Broughton, Kay Loane	Curtiss, Gordon Woolwin, Jr.
Brown, William Elwood	Daniel, Annie Whitty
Brundage, Jesse Powell, III	Darden, Eulalia Rebecca
Brundage, Oliver Hooper	Darling, Byron Clary
Buckey, Charles Young	Dator, Frank William
Buell, Marion	Davis, James Cooke
Buffington, Mary Adelaide	Davis, Pauline Nichols
Burgess, Ellen Knowles	Davison, Zenora Robbins
Burns, Arthur Greaves	DeCamp, Mary Jean
Bussey, Mary Whitmell	Dennis, Frank Ditmars
Callaghan, Chadwick C.	DeVoe, Charles Wood, Jr.
Campbell, John Morgan, Jr.	Dickerson, Jean Elaine
Carl, Herbert Alwin	Dipman, Jean Frances
Carl, Joseph Milton	DiSabatino, Mauro Anthony

Doniger, Walter J.  
 Dowling, Arthur Joseph  
 Doyle, Robert Staughton  
 Dusenbury, Jane Elizabeth  
 Eakin, Leroy, Jr.  
 Earngley, Willard Phelps, Jr.  
 East, Jane  
 Edwards, Frederick Charles, Jr.  
 Edwards, Newton, Jr.  
 Eltinge, William S.  
 Eppleman, Margaret Carolyn  
 Espenschied, Faye Josephine  
 Ewing, Nathaniel DuKate  
 Fager, Joseph Shearer  
 Farrar, Danny R.  
 Feagins, Carroll Spurgeon  
 Ferguson, Richard Edward, Jr.  
 Fields, Alice Carr  
 Fine, Milton Jerome  
 Finn, Thomas Daniel  
 Fischer, Charles Henry, Jr.  
 Fischer, Walter Leonard  
 Fisher, John Land  
 Fite, Jane Rankin  
 Fitzpatrick, Francis James, Jr.  
 Floyd, John Lewis  
 Folsom, Kenneth P.  
 Ford, Nancy Jo.  
 Forness, Mary Cameron  
 Foulk, William Theodore, Jr.  
 Frampton, George Thomas  
 Frazier, Barbara Blair  
 Fretwell, Joseph John, III  
 Fulton, Mary Virginia  
 Gager, John Jay  
 Gale, Elmer Thomas  
 Garber, Murray Roger  
 Garland, Porter Hickman  
 Garrison, Evelyn  
 Gassaway, Lucy James  
 Gerard, Frank Thomas, Jr.  
 Gibbons, Elizabeth Stott  
 Gibson, Patria Blayne  
 Gilbert, Betty Gene  
 Gillis, Philip Hugh  
 Gilpin, Richard Bond  
 Glenn, Henry Clarence, III  
 Globman, Clair  
 Goodrich, Marvin Dibrell  
 Goodwin, Robert Walton  
 Gorin, Jeremiah Jacob  
 Gould, Robert Kent  
 Grainger, Rachel Virginia  
 Graeter, Annadale Blevins  
 Grant, Mary Jean  
 Greenawalt, Robert  
 Greenfield, Bruce Harold  
 Griffin, Mary Virginia  
 Griffith, James Maurice, Jr.  
 Guerin, Frederick Larter  
 Gunn, Jane Adair  
 Haardt, Werner William  
 Haas, Richard Gibson  
 Hackney, Elmore Howard  
 Hahn, Frances Elaine  
 Hall, Robert Foster  
 Hamilton, Robert Alexander, Jr.  
 Handlin, Thelma Scott  
 Happel, Benjamin Albert  
 Hardesty, Dora Virginia  
 Harrell, Haywood L.  
 Harris, Joe Frank  
 Harris, Teresa Marcia  
 Harrison, Charles Luce, Jr.  
 Hassel, Merrill Lynnwood  
 Hathaway, George William  
 Hausser, Harry Edward  
 Hays, Leopold Mozart  
 Hayward, Doris Virginia  
 Heath, Stella Hartsfield  
 Heise, Kenneth Christian  
 Hench, William Stuart, Jr.  
 Herndon, Fred Jackson  
 Herndon, Nannie Mae  
 Herring, Benjamin Marshal  
 Herrmann, Ruth Oldham  
 Hess, Robert Eugene  
 Heyward, Mary Anne  
 Hickman, Elizabeth Dula  
 Hicks, Norma Ellen  
 Hill, David Alan  
 Hill, Dora Leneva  
 Hill, Drew Davidson  
 Hinck, Robert Henry  
 Hinnant, William Walker, Jr.  
 Hoage, Jerome Edward, Jr.  
 Hocker, Blanche Cozatt  
 Hoffman, Charles Robert  
 Hoffman, Gish Norman  
 Hoffman, Richard Sterling  
 Holden, Charlotte Louise  
 Hollmeyer, Elizabeth Anne  
 Hollowell, Robert Louis  
 Holly, Helen Katherine  
 Holt, Betty Bartlett  
 Hooper, Conrad Sidney, Jr.  
 Hopper, Addison Weaver  
 Horsley, William Nolen  
 Horton, Leonidas Harris, Jr.  
 Hottenstein, Rahn Lincoln  
 Hudgins, Herbert Caldwell  
 Hudson, Boyd Ellyson, Jr.  
 Huffman, Dorothy Elizabeth  
 Huggins, Mary Delaplane  
 Hughes, Ann Miriam  
 Hungate, Elizabeth Ward  
 Huntington, Eleanor  
 Hutchinson, Robert Alexander, Jr.



- Idema, Mary Louise  
 Isaacs, Richard Alfred  
 Ivey, Jane Capus  
 Jantzen, Nelson Rudolph  
 Jenkins, Barbara Jane  
 Jennings, Betty Claire  
 Jennings, Louis Brown  
 Johnson, Irma Lee  
 Johnson, Mabel Beaumont  
 Johnson, Roy Ruggles, Jr.  
 Johnston, Dana Stephens  
 Johnston, John Wesley, Jr.  
 Jones, Emily Elizabeth  
 Jones, Louise Lambeth  
 Jones, Perry Lee  
 Jones, Thomas Ogburn  
 Jones, Virginia Griffith  
 Josephs, Frances Rae  
 Kay, Duncan Griffith  
 Kellogg, Mitchell  
 Kelly, Edward Howard  
 Kerman, Herbert David  
 Kern, Jean Russ  
 Kevil, Laban Hunter  
 Kimmel, Andrew Lloyd  
 King, Annie Ruth  
 King, Sallie Rebecca  
 Kirkpatrick, Frances Hilda  
 Kirkwood, Merle Aurelia  
 Kirsch, Jack H.  
 Klingenschmitt, Sally Hinton  
 Klemme, Evelyn Ruth  
 Knapp, Robert Stephen  
 Knight, Arthur Winfield  
 Koop, Charles Thomas  
 Krampf, Isabella Mary  
 Kuperman, Jesse Paul  
 Kurtzman, Beverly Lorraine  
 Lampe, William Lee  
 Landis, William Bechter, Jr.  
 Larson, Doris Vivian  
 La Pointe, John Bourgarde  
 Lawrence, Mary Anna  
 Leavenworth, Robert Wing  
 Ledbetter, Martha Elizabeth  
 Lenox, Walter Stanley  
 Leslie, Helen Isabel  
 Leyrer, William Chase  
 Liana, Frank John  
 Lipscomb, Woodrow Pershing  
 Little, James Crawford, Jr.  
 Little, Lena Edwards  
 Littlejohn, Ethel Thompson  
 Lockwood, George Thomas L.  
 Lockwood, John A., Jr.  
 Long, Arthur Robert, Jr.  
 Long, George Bryan  
 Love, Oleta Jane  
 Lundy, Eleanor Ann  
 Lutz, Carl Frederick  
 Mack, Edwin Van Tuyt  
 Mackie, Joseph Richard  
 Main, J. Fulton  
 Mangum, Doris Cozart  
 Mann, John Wilton  
 Mansell, John Carver  
 March, Margaret Ann  
 Marr, Samuel Wade, Jr.  
 Marshall, William H. E.  
 Martin, Charles Keene  
 Martin, James Marion  
 Mason, Fred Cather  
 Masset, Andrew Hyatt  
 Mathes, Dorothy Hannah  
 Mathews, Edward Gilbert  
 Mathey, Frank Arthur  
 Maulsby, Kathleen McKay  
 McAdams, Grace Eloise  
 McBride, Louise Glenn  
 McCauley, Jeanne Yvonne  
 McComb, Martyne Louise  
 McCord, Thomas Isaac  
 McCoy, John Oliver  
 McCracken, Charles William  
 McGarrity, John Aloysius  
 McLean, Annie Copley  
 Meiklejohn, Louise Alma  
 Miller, Charlotte Frances  
 Miller, Dorothy Elizabeth  
 Miller, Ruth Frances  
 Minor, Ruth Henrietta  
 Moesser, Katherine Elizabeth  
 Moffit, Franklyn Monroe  
 Molloy, Margaret Rush  
 Moneyhun, Ariel  
 Moore, James Harmon  
 Moore, Jane Elizabeth  
 Moran, William  
 Morelock, George L., Jr.  
 Morris, James Terry  
 Morton, Margaret Holmes  
 Mueller, Carl Herman, Jr.  
 Murphy, Charles Baez  
 Muse, Jesse Phillip  
 Nailor, Irvin LeRoy, Jr.  
 Nelson, Phyllis Marjorie  
 Newens, Richard Scott  
 Newsom, Mary Toms  
 Nixon, Pennington Mason  
 Northcutt, Charlie Nelson  
 Northrup, Richard Winfield  
 Nuckols, Eleanor Kathleen  
 Olesen, Oscar Ernest  
 Oppen, Nellie-Anna  
 Ormond, Margaret  
 Orton, Stuart  
 Osgood, Jenifer Davies  
 Owens, Alfred Lemuel

Owens, William Geiger  
 Pace, Martha Young  
 Palmgren, Einar Alexander, Jr.  
 Paredes, Paul Emile  
 Parker, Ruth Isabella  
 Parks, Helen Clare  
 Patrick, Virginia Mary  
 Patterson, Eleonora Louise  
 Patterson, George Enslen  
 Paulsen, Douglas Bernard  
 Pawling, Arthur S., Jr.  
 Pedersen, Peder Malvin  
 Penabaz y Coburn, Fernando  
 Pengelly, Donald Albert  
 Perry, Norvin A., Jr.  
 Peters, Frank Stanley  
 Peters, Grace Lorraine  
 Petersen, Arthur M., Jr.  
 Phillips, Dorothy Leigh  
 Pickard, John David  
 Plumb, John J.  
 Pope, Albert Harrell  
 Pope, Marvin Hoyle  
 Porter, Marian Elizabeth  
 Post, Edward Ernest, Jr.  
 Potter, Gertrude Willard  
 Power, Thomas William  
 Price, Margaret Mathilde  
 Price, Robert Murray  
 Privett, Leonora  
 Purnell, Oliver James, Jr.  
 Pyle, Betty  
 Queen, Mary Kathryn  
 Quick, Leon Wright, Jr.  
 Ramsaur, Edith Merrill  
 Rankin, Mary Frances  
 Rankin, Sara Elizabeth  
 Rebman, Andrew Frederick, III  
 Ris, Howard Clinton  
 Ritter, Richard Whitney Morgan  
 Rocke, Helen Elizabeth  
 Roesti, Max, Jr.  
 Rohrbaugh, Austin Bertram, Jr.  
 Rouse, Arthur Blyth, Jr.  
 Rouzer, Elmer Ellsworth  
 Ryon, Thomas Shipley  
 Sackman, Martin Douglas  
 Sager, Thomas Curtis  
 Sawyer, Thomas Benjamin  
 Schmidt, Martha Kate  
 Scanlon, Robert Lawrence  
 Schaefer, Walter Augustus, Jr.  
 Schworer, Donald V.  
 Scott, Joseph Whiddon  
 Seeman, Nancy Renn  
 Sewell, Ava Frances  
 Shaw, Winifred  
 Sheehan, Donald Henry  
 Shilliday, James Glasser  
 Shockloss, John William  
 Sholes, Dillard McCary, Jr.  
 Sidbury, Julia Rowena  
 Sisk, Mary Helen  
 Simpson, Ernest Albert, Jr.  
 Skinner, Virginia Elizabeth  
 Small, Philip Dunlap  
 Smith, Edward  
 Smith, Frederick Firth  
 Smith, Mary Elizabeth  
 Smith, Kenneth Murphy  
 Snyder, George Peter, Jr.  
 Somerville, William Bierman  
 Souders, Mary Elizabeth  
 Southgate, Loula McDonald  
 Spurgeon, Allen Cooper  
 Spurgeon, John Lackey  
 Stackhouse, Helen Clare  
 Starke, Helen  
 Stedman, Willie Ruth  
 Steele, Anne Louise  
 Steenrod, Robert Lee  
 Stephens, Robert Harvey  
 Stetler, Keith Hays  
 Stine, Mary Elizabeth  
 Stone, Elizabeth Wylls  
 Stone, Mary Elizabeth  
 Stone, Merle Kay  
 Stone, Russell DeLeon  
 Stowell, Betty Ann  
 Strauss, Carol Marie  
 Stutson, Irene Rose  
 Sultner, Sara Isabel  
 Sundholm, John Edward  
 Surbaugh, George Harvey  
 Sutton, Wilton Carey  
 Sykes, Harold Arthur, Jr.  
 Taylor, Curtis Shelden  
 Taylor, Francis Sprott  
 Taylor, Hoy, Jr.  
 Teer, Mary Elizabeth  
 Thomas, Charles A., Jr.  
 Thompson, Catherine  
 Thornhill, George Tudor, Jr.  
 Tice, Mary Pauline  
 Timberlake, Lloyd Flintom  
 Timberlake, Thomas Howard  
 Tobey, Elizabeth Crispell  
 Townsend, Roberta Elizabeth  
 Truax, Oliver W., Jr.  
 Turley, Edwin William  
 Turner, Charles Fletcher  
 Turner, Milford Peterson  
 Turpit, William James  
 Ulrich, Harvey Edward, Jr.  
 Ultes, Carl, Jr.  
 Umstead, Callie Ella  
 Van Lill, Stephen Joseph, III  
 Varnes, Clara Louise

Vaughan, William Thomas	Wiley, Arthur Leslie, Jr.
Vick, Giles Wesley, Jr.	Wiley, Avis Elizabeth
von Glahn, Harold Diederick	Wilkerson, Dorothy Earle
Wade, Charles Byrd, Jr.	Willis, Annie Cecile
Wade, Luther Irwin, Jr.	Wilkinson, Herbert James, Jr.
Walker, Marion	Williams, Berry Collins
Walker, Remsen Wesley	Williams, Bill Justin
Wannamaker, Louise Gelzer	Williams, Joseph Lake
Washburn, John W.	Williams, Manley Cadwalader
Watson, Sarah Ann	Wilson, Earl Way
Webster, Thomas Preston, Jr.	Wilson, Robert C.
Weinstein, Maurice Aaron	Winston, Marjorie
Wells, William Waterman	Witte, Patricia Marion
Wenrich, Charles D.	Wood, Robert Cary
West, James Kilgo	Woolfolk, Elizabeth Lamb
Wherrett, Norman Lewis	Wright, Margery Walker
Whitaker, Ruth Lenore	Wright, William Beverly, Jr.
White, Donald Hamilton	Wynne, Marjorie Gray
White, Margaret Beveridge	Yoder, James Russell, Jr.
Widgery, Rhoda	Young, Hubert Pride
Widmark, Walter Leroy	Young, Jeanne Elizabeth
Wilcox, Jane Anne	Zerbach, Dorothy Ione

## B.S. DEGREE

Derr, Paul Franklin	Owens, William Robert, Jr.
Farrar, William Baker, Jr.	Pfann, Harry Fred
Graves, James Endsley	Russell, Horace, Jr.
Holland, Mary Brent	Stallcup, Marjorie Conser
Miller, John Cassel	Stocks, William Leonard, Jr.
Miller, William John, Jr.	Worthington, George Sanford

*In Civil Engineering*

Crawford, Clark Alvin	McCann, Frank Bates
Griffiths, William H., Jr.	McGaughy, John Bell, Jr.
Kleban, Theodore	Murphy, Valentine Lawrence, Jr.
Lucas, Chester Laurice	

*In Electrical Engineering*

Bretz, George Warren, Jr.	Kingman, Robert Woodbridge
Cameron, Edward	McCann, Walter Ray
Few, William	McDonough, Bernard William
Flowers, Harold Lee	Pons, Walter
Jenkinson, Harvey Thorndyke	Russo, Roland

*In Mechanical Engineering*

Buckingham, Walter Harlow	Keane, Richard Carens
Bynum, George Taylor	Kurtz, Harold Keller
Clark, George Warren	McKee, Sterling E.
Evans, Henry Simpson, Jr.	Rohland, John Harrison, Jr.
Hartz, Fred H.	Shilling, Edward William
Jerome, Walter Gray, Jr.	

*In Nursing*

Cadle, Evelyn Marie	Estes, Frances
Decker, Edna Lynette	Hall, Myra Maria
Dunn, Dorothy Elizabeth	Herman, Margaret Rebecca
Eagles, Kathleen Elizabeth	Herman, Mary Alice

Hodges, Charlotte Irby  
Jarrett, Sara Louise  
Johnson, Josephine  
Kuykendal, Margaret  
Lopp, Lucille  
Moore, Grace Elizabeth

McDavid, Virginia Bennett  
Olsen, Lurine Evelyn  
Pope, Virginia Martin  
Tillett, Grace Mangum  
Umbel, Waneta Virginia

*In Medicine*

Black, John Riley, Jr.  
Camalier, C. Willard, Jr.  
Haas, William Reid  
Kuhn, Harold Hunter  
McAnally, William Jefferson, Jr.  
Newman, Glenn Carraway

Raper, James Sidney  
Schnoor, Thomas Gilbert  
Surlles, Doris Lee  
Whitaker, Charles Stanly  
Woolsey, Frank Mahlon, Jr.

## A. M. DEGREE

Abee, Florence Edwina  
Ashworth, Rufus Charles  
Baucom, Thomas Victor  
Beamer, Celestine Marie  
Bennett, Georgia Belle  
Burke, William Miller  
Cain, Herbert Lloyd  
Carter, Judson McGilvray  
Cecil, Levi Moffit, Jr.  
Cobb, Jacob Ernest  
Cody, Frances Perle  
Cooper, Gerald Rice  
Critchfield, Clara  
Davis, Alberta Lee  
de Treville, Marie Louise  
Dickson, Bonnie Ethel  
Dooley, Emilie Phoebe  
Dribben, William Barnett  
Efird, Laura Christine  
Eyler, William Andrew, Jr.  
Feister, Irving  
Firebaugh, Joseph Jesse  
Fischer, Monroe Carl  
Fishburne, Margaret Greene  
Fisher, Jesse Gilbert  
Flora, William Evans Sherlock  
Frazer, Emmet Manly  
Going, William Thornbury  
Griggs, Georgia Maye  
Hair, Clifton LeCroy  
Hartz, Edwin Ruben  
Hickey, Robert Louis  
Hill, Johnsie Cooke  
Hoffman, Raymond Norton  
Hudnall, Eva Irene  
Humphreys, Mary Emily  
Hunt, Melba Cleo  
Jester, Joseph Richardson  
Johnson, Eric Gustav  
Jones, Melville Lewis  
Kessee, Aubrey Mays  
Kelly, Edward Hetherton  
Lacey, Mary Frances  
Ladner, Heber Austin

Landrum, Louella  
Lansdell, Emily Kilpatrick  
Lee, Emily Markham  
Louis, William K.  
Martin, James Alfred, Jr.  
McAllister, Birdie  
McCracken, Mary Lee  
MacInnes, Donald Boyer  
Mercer, Julia  
Miller, Elizabeth Moore  
Munsey, Lassie May  
Nakamura, Junichi  
Olliff, Martha Walker  
Palmer, Grover Winfield  
Parr, Lois Alberta  
Pettingill, Rita Barbara  
Piedra, Harry Tiburt  
Porter, Helen Elizabeth  
Porter, Julia Adeline  
Powell, Caroline Egerton  
Powell, Donald Moore  
Pratt, Lanier Ward  
Price, Albert Lee  
Purcell, James Slicer, Jr.  
Randle, Clinton Wilson  
Reeves, William Thomas  
Rollins, Roy Eugene  
Schmidt, Frederick Jacob  
Shields, Margaret Virginia  
Simmons, Edgar Boyd  
Smith, Allen Candler  
Smith, Frank Ferrell  
Smith, Oscar  
Smith, Rebecca  
Snyder, William Ulrich  
Stalnaker, Lillian  
Steer, Alfred Gilbert, Jr.  
Stephens, Arey  
Taylor, Charles Theodore  
Toole, Eben Richard  
Vernon, Sarah Elizabeth  
Walter, Selwyn Bernard  
Wood, Gordon Reid  
Young, DeWald Secrist

## M.ED. DEGREE

Akins, Charles Wesley	Kuhn, Robert Elwood
Bailey, Eugene Cassidy	Permenter, Walter Newton, Jr.
Bobo, William Pervy	Perry, Gilbert Vincent
Boyer, Charles Victor	Pierce, Lucile
Carson, Louis Frederick	Planck, Carl Gustav
Conrad, Thomas Pennington	Plymale, Pearl Boggess
Crowe, Frank Chapman	Plymale, Rexford Puryear
Fisher, Cleo Edith	Ray, Cora Miller
Fletcher, Ward Thomas	Rein, William Christopher
Harris, Arthur Small, Jr.	Renfro, Carl Gilbert
Henritze, Welch Hudson, Jr.	Schneider, Julius August
Hernick, Michael Edward	Shull, Paul Eugene
Hetrick, Charles Raymond	Spangler, Arthur Hodson
Hill, Benjamin Frederick	Stover, Kermit Martin
Hoffman, Ira Penn	Taylor, Noel Alexander
Hoffman, Ruth Elizabeth Parnell	Wagner, Horace McDonald

## B.D. DEGREE

Bearden, Robert Edward Lee	Morris, Clarence Poe
Budd, Allen Clark	Ormond, John Kern
Greene, Johnnie Thomas	Patterson, Floyd Merrill
Hardin, Elliott Wamamaker	Rickard, Harry Cleveland
Holmes, John Julian	Rink, James Edward
Hyde, Forrest Ervin	Smalling, James Arthur
Keller, Albert Freed	Swann, Edgar Allen
Kester, Grier Smith, Jr.	Taylor, Paul Richard
Lowman, Everett Herman	Waggoner, John Phillip, Jr.
Mathison, Ovie Wilson	White, Percy Daniel
Miller, John Carlisle	Young, James Doyné

## LL.B. DEGREE

Bulleit, Edward B.	Matthews, John Frederick
Butterfield, Thomas Edward, Jr.	Newsom, James Long
Cady, Frederick Clayton	Sapp, James Everett, Jr.
Cann, Richard McDonald	Sears, Howard Jones
Cleveland, Theron Clair, Jr.	Spencer, Harold Winston
Hill, Harry Weller	Stuart, Carmon Jackson
Lewis, William Allen	Warren, Charles Ransom, Jr.
Littell, Duane Oliver	Wyman, Paul P.
Lundgren, Carl Ellis Raymond	Young, Charles Holt
Marks, Morris S.	

## LL.M. DEGREE

Barnes, Henry Searcy

## M.D. DEGREE

*(Numbers after names of candidates for M.D. indicate the time when they completed their work at the Medical School.)*

Alter, Robert L. (9-4-37)	Burns, Margaret Virginia (9-4-37)
Baer, George James (9-4-37)	Camalier, C. Willard, Jr. (6-6-38)
Balas, Elizabeth Mary (6-6-38)	Cross, Almon Rufus (6-6-38)
Barefoot, Sherwood W. (3-19-38)	Duncan, Charles Ross (9-4-37)
Berry, Courtlandt Dixon (6-6-38)	Fogel, David Hudson (6-6-38)
Bissell, Bradford (12-19-36)	Gill, Dan Cummins (6-6-38)
Black, John Riley, Jr. (6-6-38)	Gonder, Thomas Alphonse, Jr. (6-7-37)
Bogardus, George McClintock (6-6-38)	Haas, William Reid (3-19-38)
Brandt, John Walter (6-6-38)	Hall, Collins Fremont (6-6-38)



- |   |                                       |
|---|---------------------------------------|
| Hastings, Walter Darlington, Jr. (6-6-38) | Ross, Ira Stanley (6-6-38)            |
| Hickman, Harry Stuart (6-6-38)            | Ross, Weldon Troeh (6-6-38)           |
| Hollister, William Fredwin (6-6-38)       | Rumpanos, Socrates (3-20-37)          |
| Horack, Harold MacLachlan (3-20-37)       | Sachs, James Wilbur (6-6-38)          |
| Ivie, Joseph McKinney (6-6-38)            | Shinners, Burton Michael (9-5-36)     |
| Joistad, Arthur Harvey, Jr. (12-18-37)    | Silver, George Addison, III (9-4-37)  |
| Kaufman, William H. (9-4-37)              | Stroud, George Merritt, III (3-19-38) |
| Lee, Albert Francis (6-7-37)              | Styron, Charles Woodrow (6-6-38)      |
| Lee, Lyndon E., Jr. (12-18-37)            | Thornhill, Edwin Hale (3-19-38)       |
| Lesko, Joseph Michael (12-18-37)          | Troxler, Eulyss Robert (6-6-38)       |
| Lide, Thomas Norwood (3-19-38)            | VanHoy, Joe Milton (6-6-38)           |
| MacColl, William Alexander (3-19-38)      | Varner, Philip Holt (6-6-38)          |
| McCracken, Joseph Pickett (9-4-37)        | Veale, Norman C. (12-18-37)           |
| McNamara, Philip Joseph (9-5-36)          | Webster, Nelson M. (12-18-37)         |
| Morton, Henry George (12-18-37)           | Wells, Warner Lee (6-6-38)            |
| Peery, James McGuire (6-6-38)             | Whitaker, Charles Stanly (6-6-38)     |
| Perry, Raymond Mel (6-6-38)               | Woolsey, Frank Mahlon, Jr. (6-6-38)   |
| Powell, William Flynn (12-18-37)          | Wyvell, Dorothy Bryan (6-6-38)        |

## DIPLOMA IN NURSING

- |                            |                        |
|----------------------------|------------------------|
| Adams, Maude               | Gibson, Jean Chalmers  |
| Barbee, Sula Meadows       | Hall, Myra Maria       |
| Beery, Annie Harriss       | Jarrett, Sara Louise   |
| Brewer, Lottie Mae         | Olsen, Lurine Evelyn   |
| Cook, Maude Margaret       | Pegram, Annie Lee      |
| Currence, Martha Lorena    | Pope, Virginia Martin  |
| Decker, Edna Lynette       | Smith, Hilda Iris      |
| Dunn, Dorothy Elizabeth    | Umbel, Waneta Virginia |
| Eagles, Kathleen Elizabeth | Wilson, Sarah Ann      |

## PH.D. DEGREE

- Brown, James Wilson, B.S., University of Maryland; A.M., Duke.  
Dissertation: *Respiration of Acorns as Related to Temperature and After-Ripening.*
- Burnside, Maurice Gwinn, B.S., Furman University; A.M., University of Texas.  
Dissertation: *Pardon, Parole, and Indeterminate Sentence with Special Reference to South Carolina.*
- Calfee, John Douglas, A.B., Park College; M.S., University of Tennessee.  
Dissertation: *A Study of the Vapor Phase Fluorination of Certain Aliphatic Organic Compounds.*
- Carney, James Joseph, Jr., A.B., A.M., Harvard University.  
Dissertation: *Some Aspects of Spanish Colonial Policy.*
- Coy, Nettie Helena, A.B., University of New Brunswick; A.M., Columbia University.  
Dissertation: *Investigation of the Emission Spectra of Antimony Nitride and Bismuth Nitride.*
- Culbreth, Sarah Elizabeth, A.B., A.M., Duke.  
Dissertation: *Studies on Certain Aspects of the Normal and Anaerobic Metabolism of Fresh Water Mussels.*
- Davis, Charles Shepard, B.S., M.S., Alabama Polytechnic Institute.  
Dissertation: *The Plantation System in Alabama before 1860.*
- DeLancy, Frances Priscilla, A.B., A.M., West Virginia University.  
Dissertation: *The Licensing of Professions in West Virginia.*
- DeMond, Robert Orley, A.B., A.M., Syracuse University.  
Dissertation: *The Loyalists in North Carolina during the Revolution.*



- Duncan, Wilbur Howard, A.B., A.M., Indiana University.  
Dissertation: *A Study of Root Development in Three Soil Types in the Duke Forest.*
- Eggers, Graydon Poe, A.B., Carson-Newman College; A.M., Duke.  
Dissertation: *The Social Novel in England, 1832-1890.*
- Fluegel, Edna Rose, A.B., Marywood College; A.M., Duke.  
Dissertation: *Concepts of Economic Liberty and the United States Supreme Court: A Study in Judicial Thought.*
- Garren, Kenneth Howard, A.B., A.M., Duke.  
Dissertation: *A Study of Polyporus Abietinus, the Cause of the Pitted Sapwood Rot of Pines.*
- Hamilton, William Baskerville, Jr., A.B., A.M., University of Mississippi.  
Dissertation: *American Beginnings in the Old Southwest: The Mississippi Phase.*
- Hopkins, John Isaac, B.S., A.M., Duke.  
Dissertation: *A Wilson Cloud Chamber Study of Cosmic Ray Particles.*
- Johnston, Thomas McNaughton, B.S., Washington and Jefferson College; A.M., Tulane University.  
Dissertation: *The Neo-Classical Background of Robert Lowth's Lectures on the Sacred Poetry of the Hebrews.*
- Ligon, Edgar William, Jr., B.S., University of Richmond.  
Dissertation: *The Cytological Structure of the Digestive System of the Lamellibranch Mollusc, Musculium (Sphaeriidae).*
- McCord, William Fletcher, A.B., Mercer University.  
Dissertation: *The Delayed Reaction and Memory in Rats.*
- McCurdy, Harold Grier, A.B., Duke.  
Dissertation: *Psychological Analysis of Literary Productions as a Revelation of Personality.*
- McCurdy, Mary Burton Derrickson, A.B., Goucher College; A.M., Syracuse University.  
Dissertation: *Mitochondria in Liver Cells of Fed and Starved Salamanders.*
- McNicol, Robert Edwards, A.B., University of Miami; A.M., Duke.  
Dissertation: *Peruvian-American Relations in the Era of the Civilist Party.*
- Michel, Harry Oscar, B.S., University of California.  
Dissertation: *A Study of Sulfhemoglobin.*
- Moore, Ross Henderson, B.S., M.S., Millsaps College; A.M., University of Chicago.  
Dissertation: *Social and Economic Conditions in Mississippi during Reconstruction.*
- Morton, Louis, B.S., A.M., New York University.  
Dissertation: *Robert Carter of Virginia: A Study of a Tobacco Planter of the Eighteenth Century.*
- Rose, Jesse Lee, A.B., College of Charleston; A.M., Duke.  
Dissertation: *The Durative and Aoristic Tenses in Thucydides.*
- Savely, Harvey Epperson, Jr., B.S., Mississippi State College.  
Dissertation: *Ecological Relations of Certain Animals in Dead Pine and Oak Tree Trunks.*
- Schoolland, John Bernard, A.B., University of Michigan; A.M., Columbia University.  
Dissertation: *An Experimental Investigation of Constitutionally Differentiated Cognitive Behavior of Chicks and Ducks.*
- Stanbury, Walter Albert, Jr., A.B., A.M., Duke.  
Dissertation: *The Language of Francis Quarles.*
- Wilson, John Woodrow, B.S., Duke.  
Dissertation: *Some Physiological Properties of Reptilian Blood.*

## HONORARY DEGREES

## DOCTOR OF DIVINITY

James Braxton Craven

Norman Vincent Peale

## DOCTOR OF LAWS

Ellen Glasgow

Clyde Ruark Hoey

Lewis Hill Weed

## DOCTOR OF LETTERS

Ray Stannard Baker

## DOCTOR OF SCIENCE

Charles Holmes Herty

## HONORS IN GRADUATING CLASS

*Summa Cum Laude*

Greenfield, Bruce Harold

Kirkpatrick, Frances Hilda

## MAGNA CUM LAUDE

Bane, David Morgan  
 Crawford, Clark Alvin  
 Dowling, Arthur Joseph  
 East, Jane  
 Flowers, Harold Lee  
 Hausser, Harry Edward  
 Kuperman, Jesse Paul  
 Love, Oleta Jane

Morton, Margaret Holmes  
 Russell, Horace, Jr.  
 Schmidt, Martha Kate  
 Sheehan, Donald Henry  
 Townsend, Roberta Elizabeth  
 Wade, Luther Irwin, Jr.  
 Webster, Thomas Preston, Jr.

## HONORS IN DEPARTMENTS

Chemistry—Hudson, Boyd Ellyson, Jr.; Russell, Horace, Jr.  
 Economics—Bremer, Roger Edward; Nixon, Penington Mason; Plumb, John J.  
 English—Owens, William Geiger  
 Mathematics—Pedersen, Peder Malvin; Wade, Luther Irwin, Jr.  
 Philosophy—Jennings, Louis Brown  
 Divisional Group (English, Philosophy, and Fine Arts)—Dowling, Arthur Joseph; Love, Oleta Jane; Post, Edward Ernest, Jr.; Wynne, Marjorie Gray; Zerbach, Dorothy Ione  
 School of Law—Butterfield, Thomas Edward, Jr.  
 School of Medicine—Carter, Richard Rutledge; Gill, Atticus James; Gill, Dan Cummins; Haas, William Reid; Hollister, William Fredwin; Ross, Ira Stanley; Troxler, Eulyss Robert; Van Hoy, Joe Milton; Wells, Warner Lee

## JUNIOR HONORS

Baker, Ellis Thomson, III  
 Beckel, Willis Spangler  
 Butler, Willis  
 Coppedge, Everette Peter  
 Craven, James Braxton, Jr.  
 Daane, James Dewey  
 Duncan, Leroy Edward  
 Few, Kendrick Sheffield  
 Finger, Margaret Louise  
 Harvey, Harold E.  
 Horack, Benjamin Shambaugh

Koehnlein, Betty  
 Kreiser, C. Frederick  
 Leckie, James Alexander  
 Liverant, Freda Helen  
 Lowenstein, Herbert Roof  
 MacLeod, Betsy Kennedy  
 McKenzie, Lionel Wilfred  
 Metzenthin, Kathleen Proctor  
 Miller, Garfield L., Jr.  
 Patterson, Anna Mildred  
 Phillips, Susan Latimore

Rand, Robert Collom  
 Rettew, Janet Pierce  
 Rieger, Vivian Theresa  
 Roe, Jane Elizabeth  
 Saleeby, Helen  
 Shortlidge, Elizabeth Nieweg

Stovall, Sidney  
 Van Voorhis, Robert Henry  
 Veal, Curry Speed  
 Wallace, Jean Loretta  
 Williams, William Orrin

## SOPHOMORE HONORS

Bail, Jane  
 Beckel, Frank Louis  
 Beckel, Samuel Somerville  
 Beightol, Guy Dixon  
 Byrum, John Franklin  
 Conrad, Elizabeth  
 Dimond, Charles Leigh  
 Eitner, Lorenz E. A.  
 Evans, Alona Elizabeth  
 Himelright, Loring Kenneth  
 Kramer, Betty Ellen  
 Malone, Thomas Patrick

Nugent, Allen Edward  
 Perkins, Martha Shannon  
 Rutledge, John Clifton  
 Secrest, Lillian Asbury  
 Smith, Victor K., Jr.  
 Stetler, Nevin  
 Stites, Jessie Parkes  
 Tabakin, Florence  
 Townsend, Roswell George  
 Wertz, Doris Elise  
 Young, Cabell, Jr.

## FRESHMAN HONORS

Baeder, Robert Lester  
 Bunce, Edgar Fenn, Jr.  
 Crump, Charlotte Amelia  
 Curry, Robert Whitney  
 French, John Martin  
 Goodwin, Noma Lee  
 Hull, Edyth Maud  
 Lauppe, Carl, Jr.  
 Lewis, Harold Boyd, Jr.  
 McCann, Adriana

Murdick, Robert Gordon  
 Perinovich, Robert Emil  
 Price, Robert Clarke  
 Rudolph, Louise Nadine  
 Sanborn, Charles Francis  
 Smith, Shirley Louise  
 Stanley, Horace Goodman  
 Stockdale, Ruth Mary  
 Vanderlinde, Robert James  
 Wagner, Carol June

## ROLL OF STUDENTS (1937-1938)

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### TRINITY COLLEGE

#### FRESHMAN CLASS

Alcorn, Hugh A.	New Brunswick, Canada
Alexander, Stewart Murray, Jr.	Durham, N. C.
Allen, Robert Hatcher	Knoxville, Tenn.
Alpert, Arthur Malcolm	Chicopee Falls, Mass.
Amick, George Henry, Jr.	Gettysburg, Pa.
Anderson, Donald Frederick	Port Allegany, Pa.
Andrews, Ralph John, Jr.	New Haven, Conn.
Ange, Hubert Milton	Jamesville, N. C.
Aquino, William Phillip	Hickman, Ky.
Atkins, Jack	Gastonia, N. C.
Atwell, Robert James	Chillicothe, O.
Auchter, George David, Jr.	Jacksonville, Fla.
Babenzien, Robert Max	New York, N. Y.
Badgett, Clarence E.	Mt. Airy, N. C.
Baeder, Robert Lester	Nutley, N. J.
Baetz, Wilfred George	New York, N. Y.
Bailey, Edgar Lee	Lexington, N. C.
Bailey, Thomas Edward	Rockville Center, N. Y.
Baily, Johnson Levering	Canandaigua, N. Y.
Baker, James Fairfowl	Haddonfield, N. J.
Banner, Stephen Scott	Mt. Airy, N. C.
Barnes, Jack	Ahoskie, N. C.
Barnes, Wallace Stocker	Waukegan, Ill.
Barnhart, William Robert	Mt. Pleasant, Pa.
Barry, Frank C.	Sag Harbor, L. I., N. Y.
Baskervill, Robert Dortch	Warrenton, N. C.
Bastien, Ralph Henry	Grosse Pointe, Mich.
Batten, John C., Jr.	Charlotte, N. C.
Beatty, William Ernest	Litchfield, Conn.
Bechara, Jose, Jr.	Mayaguez, Puerto Rico
Bechtel, Willis Raymond	Sterling Ridge, N. Y.
Beck, John Adney	Manchester, N. H.
Bedell, Malcolm Willis	Tottenville, N. Y.
Beebe, James, Jr.	Lewes, Del.
Beller, Sidney	Willimantic, Conn.
Berini, Nello Recordo	Durham, N. C.
Berry, John Henry	Reidsville, N. C.
Bertolet, William Henry	Bala-Cynwyd, Pa.
Bigham, George Faunce	Carnegie, Pa.
Bilane, Frank Joseph	Irvington, N. J.
Birmingham, George Garvin, Jr.	Liberty, N. Y.
Blackman, Raymond Casper	Bath, N. Y.
Blackwell, Richard T.	Rockford, Ill.
Blalock, David Dunlap	Wadesboro, N. C.
Blalock, George Franklin	Dunn, N. C.
Bloodgood, Elwyn L.	Scarsdale, N. Y.
Boehringer, Robert R.	Upper Darby, Pa.
Boorman, Bruce Edward	Snyder, N. Y.

- Borah, William Norman  
 Bortz, Kilmer  
 Bost, Carlton Hiram  
 Bowes, Al L., Jr.  
 Bradley, Charles Hunter  
 Bragg, Kendrick Robertson, Jr.  
 Brame, Lacy Morgan  
 Brenna, Joseph Dondiego  
 Brian, Arthur Walter  
 Brinson, Jeremiah Edison  
 Brooks, Louis Arthur  
 Brooks, Robert John  
 Broome, Robert Alexander, Jr.  
 Brower, Edwin Neil  
 Brown, David Arnold  
 Brown, Edward Martin  
 Brown, Henry Clay, III  
 Brown, J. Robert C.  
 Brown, Oscar Oswell  
 Brown, Richard Rintoul  
 Brown, Robert  
 Brown, Stewart Gregory  
 Brownell, Robert William  
 Bruckner, Jack Lincoln  
 Bruney, Charles Winfield  
 Brust, Albert Adam, Jr.  
 Bunce, Edgar Fenn, Jr.  
 Bunn, Robert Hall  
 Burghoff, Willard Lyman  
 Burnam, Robert Rodes, III  
 Burns, John Gordon  
 Butler, Jack Floyd  
 Butts, John Davis  
 Bynum, Aaron Headen, Jr.  
 Byrd, Bacchus Bright, Jr.  
 Cable, Robert Shaffer  
 Callahan, Edwin Forrest  
 Calvin, Reginald Ross  
 Campbell, Jack Holmes  
 Caneschi, Mayo Louis  
 Cann, John Edward  
 Cann, Robert Nelson  
 Canney, Edwin L.  
 Cannon, Charles Albert  
 Cantine, Robert Livingston  
 Carey, Charles Leo  
 Carll, Jesse Whilden  
 Carman, Charles V.  
 Carnrick, Millard, Jr.  
 Carpenter, Albert Jefferson, Jr.  
 Carr, Herbert  
 Carson, Howard Francis  
 Carswell, George Harrold  
 Carter, John Leslie  
 Champion, Battle Wilson  
 Chapin, Harrison Lyon, Jr.  
 Chapin, Reynold Sayre  
 Cheek, John Merritt  
 Chickering, William Alan  
 Big Run, Pa.  
 Washington, D. C.  
 Charlotte, N. C.  
 Endicott, N. Y.  
 Hagerstown, Md.  
 Savannah, Ga.  
 Reidsville, N. C.  
 Trenton, N. J.  
 Salem, O.  
 Wrightsville, Ga.  
 Charlottesville, Va.  
 Winnetka, Ill.  
 Rocky Mount, N. C.  
 Hope Mills, N. C.  
 Turtle Creek, Pa.  
 Shreveport, La.  
 DeLand, Fla.  
 Brooksville, Fla.  
 Tampa, Fla.  
 Sewickley, Pa.  
 Acton, Mass.  
 Louisville, Ky.  
 Washington, D. C.  
 Jamaica, N. Y.  
 Martins Ferry, O.  
 Chillicothe, O.  
 Glassboro, N. J.  
 Lorain, O.  
 Wallingford, Conn.  
 Richmond, Ky.  
 Asheville, N. C.  
 Canandaigua, N. Y.  
 Closter, N. J.  
 Rock Hill, S. C.  
 Morristown, Tenn.  
 Johnstown, Pa.  
 Durham, N. C.  
 Hickman, Ky.  
 Austinville, Va.  
 Meriden, Conn.  
 Greensboro, N. C.  
 Boston, Mass.  
 New York, N. Y.  
 Concord, N. C.  
 Woodstock, N. Y.  
 Lawrence, Mass.  
 Bridgeton, N. J.  
 Springdale, Conn.  
 Montclair, N. J.  
 Attleboro, Mass.  
 Newfane, N. Y.  
 Charleroi, Pa.  
 Bainbridge, Ga.  
 New York, N. Y.  
 Clayton, N. C.  
 Rochester, N. Y.  
 Flushing, N. Y.  
 Durham, N. C.  
 Lakewood, O.

Clark, Carleton Climer  
Clay, James Raymond, Jr.  
Clees, James Cameron  
Cliff, Benjamin Archibald  
Clous, David Arthur  
Clover, William Moore  
Cochran, Gerald Leroy  
Cochrane, William Kenny  
Cocke, William Booth  
Cole, Walter Francis  
Collins, John Pope  
Collins, Melville Nathaniel  
Collins, Trela D., Jr.  
Connar, Richard Grigsby  
Connar, Robert Virgil  
Connelly, Thomas Francis  
Conner, Clay, Jr.  
Cook, William Arthur  
Coombs, Charles Soden  
Cooper, Carlisle Carlton  
Cornell, Paul A.  
Court, Sidney E.  
Covey, William Crocket, Jr.  
Covington, James Carlwyn  
Cowdrick, Thomas William  
Cox, Jere Coleman  
Cox, William Biggs  
Craig, Colden Latham  
Crandall, J. Tilden  
Craven, Clyde Rober, Jr.  
Creamer, Robert Hemphill  
Creely, John Robert, III  
Cromartie, Richard Lemuel  
Cruikshank, Harold William  
Culp, John Julian  
Cunningham, Clifford Haynor  
Cunningham, Henry Vernon  
Curry, Robert Whitney  
Dacey, William John  
Dailey, Frank Walter  
Dalton, Sam Spach  
Darnell, Leonard Johnson  
Davis, Clyde Lee, Jr.  
Davis, Eugene Moor, Jr.  
Davis, Jasper David, Jr.  
Davis, Lawrence Columbus  
Davis, Penrose Moore, Jr.  
Davis, Thomas Jeffrey, Jr.  
Davis, Walter Barney, Jr.  
Dean, John Rea  
Deane, Carl Brandon  
DeLancey, Charles Edward  
DeLaney, Ernest Stanhope, Jr.  
deNeumann, Arthur Ferdinand  
DePerty, Francis  
de Quevedo, Rafael Garcia  
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Dodd, John Stuart  
Donnell, Drewry Lanier, Jr.

Middletown, O.  
Elizabeth, N. J.  
Montoursville, Pa.  
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St. Albans, N. Y.  
Knox, Pa.  
Warren, Pa.  
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Rutherford, N. J.  
Altoona, Pa.  
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Hinsdale, Ill.  
Essex Fells, N. J.  
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York, Pa.  
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Clayton, N. J.  
Garland, N. C.  
Freeport, N. Y.  
Spencer, N. C.  
Winchester, Mass.  
Durham, N. C.  
Bradenton, Fla.  
Meriden, Conn.  
Dunkirk, N. Y.  
Winston-Salem, N. C.  
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Virginia Beach, Va.  
Midway, Fla.  
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Gastonia, N. C.  
Downingtown, Pa.  
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Charlottesville, Va.  
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Roanes, Va.  
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Chevy Chase, Md.  
Winston-Salem, N. C.  
Sea Girt, N. J.  
Oak Ridge, N. C.



- Donnell, Edward Sebek  
 Donnelly, John Reynolds  
 Dotter, Charles Theodore  
 Dozier, John Marion  
 Dreasen, Richard Herbert  
 Drogue, Arthur Joseph, Jr.  
 DuBois, Louis Eli  
 Ducker, Andrew Leslie, Jr.  
 Duckett, Howard Casey, Jr.  
 Dunn, William Redfield, Jr.  
 Dunne, Steven Arthur  
 Earle, Frank Nichols E.  
 Eastwood, Frederick Thomas  
 Ebert, John Francis  
 Edge, James Brannen  
 Egan, James D.  
 Eisenbeis, Edwin Alvin, Jr.  
 Eldridge, Wade Hampton  
 Elliott, Carl Richards  
 Elliott, Joseph Alexander  
 Epperson, William T.  
 Erickson, Charles Winthrop  
 Etnyre, William Edward  
 Etzel, John  
 Everett, Laurence Shaw, Jr.  
 Fach, Albert Welsh  
 Falkenburg, Louis  
 Fath, Urban Henry  
 Fellenbaum, John Habecker  
 Felts, Roger Franklin  
 Felts, Thomas Gordon  
 Fergusson, William Willems  
 Few, Eugene Cannon, Jr.  
 Fike, Claude Edwin  
 Fike, Edward Lake  
 Files, Richard Webster  
 Fischer, Clifton Franklin  
 Fisher, John  
 Flanagan, Raymond Lawrence  
 Fleming, John Thomas  
 Fogleman, Thomas Lee  
 Ford, James Arthur  
 Forrest, William Kraemer  
 Foster, Lawrence Hubert  
 Fouche, Rex McConnell  
 Fowler, Preston Leroy, Jr.  
 Fowler, Richard Charles  
 Fracher, Louis Hoyt  
 Fraser, James Graeme  
 Frederick, Lewis Samuel, Jr.  
 Freeman, Philip Mansfield, Jr.  
 French, John Martin  
 French, Raymond John  
 Frenzel, Charles Herman  
 Frierson, John Dawson, Jr.  
 Fulp, William Marshall  
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 Gaddy, Stephen Tom  
 Gallatin, Harry Conan, Jr.  
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 Travelers Rest, S. C.  
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 Statesboro, Ga.  
 Staten Island, N. Y.  
 Pittsburgh, Pa.  
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 Augusta, Ga.  
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 Durham, N. C.  
 Rew Rochelle, N. Y.  
 Oregon, Ill.  
 Little Neck, N. Y.  
 Laurinburg, N. C.  
 Staten Island, N. Y.  
 Chicago, Ill.  
 Jeannette, Pa.  
 Mount Joy, Pa.  
 Galax, Va.  
 Galax, Va.  
 Akron, O.  
 Raleigh, N. C.  
 Ahoskie, N. C.  
 Ahoskie, N. C.  
 East Orange, N. J.  
 Scranton, Pa.  
 DeLeon Springs, Fla.  
 Springfield, Mass.  
 Blenheim, Ontario, Canada  
 Durham, N. C.  
 Orlando, Fla.  
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 Mt. Vernon, N. Y.  
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 Dover, Ky.  
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 Columbia, Tenn.  
 Winston-Salem, N. C.  
 Easton, Pa.  
 Durham, N. C.  
 Connellsville, Pa.

- Gannon, Harry M.  
Gansz, Paul Whitney  
Gates, Warren James  
Gee, Louis Gary  
Gell, Thomas Wesley  
Gerard, Alick Stephen  
Getman, Thomas Devroe  
Geyer, Walter Pooley  
Gingland, Richard Parsons  
Glover, Newton Douglas  
Gomer, Charles August  
Goodson, William Alexander, Jr.  
Gorman, Herbert Hamilton  
Gottesman, Dan  
Greathouse, Frank Lee, Jr.  
Greene, Cecil Shirley, Jr.  
Greene, John Howard, Jr.  
Griggs, Boyce Powell  
Grimm, Thomas Robert, Jr.  
Groesbeck, William F.  
Gross, John Lewis, Jr.  
Gross, Paul Magnus  
Guthrie, Frederick Gaynor, Jr.  
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Hall, Arnold Vinson  
Hamsch, Philip Parkinson  
Hancock, Robert Whitney  
Hanlon, Thomas J., III  
Hannigan, James Edward  
Hansel, John Washington, Jr.  
Hanson, Charles Walter  
Happ, Frank Morris  
Hardy, Jack Louis  
Hargen, Theodore Merritt  
Harley, Robert Edward  
Harrelson, Henry Craig  
Harrington, Thomas Allen  
Harriss, Meader Williams, Jr.  
Hart, Errol Lee  
Harvey, George Edward, Jr.  
Hastings, George Julian  
Hauck, John Henry  
Haut, Harold  
Hawfield, Harold Houston  
Hawkins, Louis Golson  
Heath, Arnold Currier  
Heath, Bayard Emerson, Jr.  
Heisinger, Donald Ernest  
Henderson, Charles Jenkins  
Henderson, Charles Tracy  
Hendrickson, Evan Edward  
Hennis, Cecil Forest  
Henry, James Everell  
Herndon, Burke Mann  
Herold, Paul Garmer  
Herr, Sener Millo  
Hewitt, Robert Patrick  
Hewlett, John Divine  
Long Island City, N. Y.  
Buffalo, N. Y.  
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Winnetka, Ill.  
Snyder, N. Y.  
Chicago, Ill.  
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Mt. Sterling, Ky.  
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South Orange, N. J.  
Ilion, N. Y.  
North Braddock, Pa.  
Durham, N. C.  
Erie, Pa.  
Durham, N. C.  
Saxapahaw, N. C.  
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Garden City, N. Y.  
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Butler, N. J.  
Bryn Mawr, Pa.  
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Macon, Ga.  
Goldsboro, N. C.  
Worcester, Mass.  
Pittsburgh, Pa.  
Cherryville, N. C.  
Glencoe, Ill.  
Sanford, N. C.  
East Orange, N. J.  
Sprague, W. Va.  
Palisades Park, N. J.  
Easton, Pa.  
Norwalk, Conn.  
Concord, N. C.  
Fort Deposit, Ala.  
Worcester, Mass.  
Robinson, Ill.  
Stamford, Conn.  
Charlotte, N. C.  
Durham, N. C.  
Beaver Falls, Pa.  
Mount Airy, N. C.  
Fort Lauderdale, Fla.  
Greensboro, N. C.  
Baltimore, Md.  
Ephrata, Pa.  
Asheville, N. C.  
Cold Spring Harbor, L. I.,  
New York

- Highsmith, James Lindsay  
 Himelright, Loring Kenneth  
 Hobgood, William Langhorne  
 Hoerle, Robert Caspar  
 Holley, Charles Henry  
 Hollmeyer, Joseph Gerard  
 Holmes, Elwin Franklin  
 Holt, Malcolm DuVal  
 Holtzman, Thomas Wood  
 Hornaday, Wayne Arington, Jr.  
 Howard, Waite Westley, Jr.  
 Howe, James Taburn  
 Howe, Robert Emmet, Jr.  
 Hoyt, Edwin Benson  
 Huckabee, James Gaston, Jr.  
 Huff, Arnold Beltrain  
 Hunter, Charles William, Jr.  
 Hunter, Robert  
 Huntoon, Hugh Sutton  
 Hutson, Albert Rawlings, Jr.  
 Ilinsky, Charles Adelbert  
 Illingworth, William Arthur  
 Irving, Henry Vere  
 Jackson, Delwood Serle  
 Jackson, Ira Joel  
 Jacobs, Sylvan William  
 James, Gordon, Jr.  
 James, Robert Johnson  
 Jamieson, David Mills  
 Jenkins, Richard Baker  
 Jennings, Thomas Bland  
 Jerome, Jerry  
 Jessup, Julian C.  
 Johnson, Gale Denning  
 Johnson, Samuel Theodore  
 Johnston, Leon Mack  
 Johnston, Will Seaman  
 Johnstone, Robert Dale  
 Jones, Clayton Merle, Jr.  
 Jones, Edward Xavier  
 Jones, George Tyree  
 Jones, James Latimar  
 Jones, Paul Winthrop, Jr.  
 Jordan, Faison Calvert  
 Jordan, John Sharpe  
 Jordan, William Ralph  
 Joyner, Aquilla H.  
 Katzenmeyer, Jack William  
 Keagy, Charles William  
 Keeler, Richard Ashmead  
 Kelsec, George  
 Keller, William Lordon  
 Kendall, Paul Cross  
 Kendrick, William Addison  
 Kennedy, Marshall Sanger, Jr.  
 Kernodle, William Henry  
 Kerns, John Edward  
 Killian, Frank Edward  
 Durham, N. C.  
 Winchester, Va.  
 Durham, N. C.  
 Johnstown, Pa.  
 Ford City, Pa.  
 Mountain Lakes, N. J.  
 Dunn, N. C.  
 Lynchburg, Va.  
 Harrisburg, Pa.  
 Greensboro, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Cincinnati, O.  
 Staten Island, N. Y.  
 Durham, N. C.  
 High Point, N. C.  
 Maplewood, N. J.  
 Delanco, N. J.  
 Fairbury, Ill.  
 Utica, N. Y.  
 Proctor, Vt.  
 Nutley, N. J.  
 Edmonton, Alberta, Canada  
 Durham, N. C.  
 Omaha, Neb.  
 Red Lion, Pa.  
 Upper Montclair, N. J.  
 Bedford, Va.  
 Patchogue, N. Y.  
 Essex Fells, N. J.  
 Rocky Mount, N. C.  
 Aurora, Ill.  
 Hertford, N. C.  
 Dunn, N. C.  
 St. Petersburg, Fla.  
 Durham, N. C.  
 Larchmont, N. Y.  
 Munhall, Pa.  
 Jamestown, N. Y.  
 Jersey City, N. J.  
 Durham, N. C.  
 Gastonia, N. C.  
 Suffield, Conn.  
 Tientsin, China  
 Mount Airy, N. C.  
 Hinsdale, Ill.  
 Morehead City, N. C.  
 Lakewood, O.  
 Altoona, Pa.  
 Mt. Airy, Philadelphia, Pa.  
 Ocean Grove, N. J.  
 Bridgeport, Conn.  
 Rochester, N. Y.  
 Saginaw, Mich.  
 Buffalo, N. Y.  
 Durham, N. C.  
 Newark, N. J.  
 Beaver Falls, Pa.

- King, Samuel Cromer  
 Kinzle, Donn Eugene  
 Kirkman, P. V., Jr.  
 Kirkpatrick, Robert Ford  
 Kister, Alfred Barber, Jr.  
 Knowles, John William  
 Knowles, Roy Vernon  
 Koenig, Helmut Paul  
 Koenig, William A.  
 Koons, Walter E., Jr.  
 Kornick, Robert Francis  
 Korstian, Robert John  
 Kraus, Glenn Read  
 Kretser, Robert Edwin  
 Kubek, Robert Bruce  
 Ladd, Robert Dwinell  
 Laker, John Bernard  
 Lamason, Robert Hopkins  
 Lang, Cecil Yelverton  
 Langston, Thomas Edward  
 Lanning, Donald Dey  
 Larson, Erwin Andrew  
 Larson, Gilbert Arthur  
 Latham, James Farr  
 Latimer, Collie Thomas, Jr.  
 Lauppe, Carl, Jr.  
 Lauteres, George  
 Lawrence, Stephen Reid  
 Leathers, William Alsey  
 Leazer, Harold M.  
 Leeper, William Edward, Jr.  
 Leitheiser, Karl Arthur  
 Leland, Dexter Farnham  
 Lengyel, Stephen James  
 Lester, Robert MacDonald, Jr.  
 Lewis, Clarence Lucian  
 Lewis, Dan  
 Lewis, Harold Boyd, Jr.  
 Lewis, Richard Edward  
 Leys, Robert Sinclair  
 Light, Frank Gristock  
 Lineberger, Robert Henry  
 Lisk, John Charles  
 Little, Joseph Pritchard  
 Little, Robert Dickson  
 Lively, Jack Heyson  
 Livengood, David Johnson  
 Lockwood, Lester Franklin  
 Logan, Harry Lee  
 Long, Gilbert Fabian, Jr.  
 Long, Jesse Dobson, Jr.  
 Long, Robert Fletcher  
 Lovett, William Ervin  
 Lowe, James Clark  
 Lucas, Cecil Swain  
 Lyles, George Washington  
 McAfee, George Anderson  
 McAfee, Wesley Taylor  
 Winston-Salem, N. C.  
 Altoona, Pa.  
 High Point, N. C.  
 Worcester, Mass.  
 Beechwood Park, Pa.  
 Deland, Fla.  
 Deland, Fla.  
 New York, N. Y.  
 Montclair, N. J.  
 New York, N. Y.  
 West View, Pa.  
 Durham, N. C.  
 McKeesport, Pa.  
 Sharon, Pa.  
 Cleveland Heights, O.  
 Greenfield, Mass.  
 Highland Falls, N. Y.  
 Williamsport, Pa.  
 Walstonburg, N. C.  
 Greensboro, N. C.  
 West Trenton, N. J.  
 Emporium, Pa.  
 Emporium, Pa.  
 Hickory, N. C.  
 Dunn, N. C.  
 Springfield, Mass.  
 Greenville, N. C.  
 Brooklyn, N. Y.  
 Roanoke, Va.  
 Kannapolis, N. C.  
 Gastonia, N. C.  
 Bellaire, Fla.  
 Hamilton, N. Y.  
 Naugatuck, Conn.  
 New York, N. Y.  
 Elizabethtown, N. C.  
 Danville, Ill.  
 Asbury Park, N. J.  
 Lakewood, O.  
 Freeport, N. Y.  
 Newtonville, Mass.  
 Lincolnton, N. C.  
 Charlotte, N. C.  
 Charlotte, N. C.  
 Raleigh, N. C.  
 Jackson Heights, L. I., N. Y.  
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 Tamaqua, Pa.  
 Kenmore, N. Y.  
 Edgewood, Pittsburgh, Pa.  
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 Baltimore, Md.  
 Dublin, Ga.  
 Tulsa, Okla.  
 Durham, N. C.  
 Thomasville, N. C.  
 Ironton, O.  
 Ironton, O.

- McCloud, Robert Olmsted  
 McCollum, J. Edward  
 McCormick, Robert John  
 McCullough, Frederick Bertram  
 McCutchen, Robert White, Jr.  
 McDermott, Raymond Lipscomb  
 McGhee, James Thomas  
 McGranahan, John Steele  
 McGrory, James Willoughby  
 McLemore, Elmond Willard  
 McNeilly, John Jere  
 MacFeiggan, Jack Murray  
 MacGahan, John Alexander  
 MacLeod, Gordon Campbell  
 Magill, James Carter  
 Maloney, Thomas Martin  
 Manry, Lawrence Edward  
 Marion, James Matthew  
 Marley, Jack Edward  
 Martin, Edward Jewett  
 Martin, Garland Estes  
 Martz, Edward Everts  
 Mathisen, Mauritz  
 Meade, Charles H.  
 Mees, Thomas Leo  
 Megaw, Robert Neill Ellison  
 Mellon, Robert  
 Mercer, Lafayette S.  
 Meyer, William John, Jr.  
 Middleton, Robert Douglass  
 Miles, Robert Lewis  
 Miller, George Edward  
 Miller, Roy Paul  
 Minish, William Edward  
 Mitchell, Donald Campbell  
 Mitchell, Robert Edward  
 Moffatt, William H.  
 Moise, Francis Marion, Jr.  
 Molina, Alexander William  
 Mongelli, Victor Louis  
 Monk, Robert Turnage  
 Monroe, Charles Edward  
 Moody, James Donaldson  
 Moore, Benson Rogers  
 Moore, George Ivey, Jr.  
 Moore, Robert Field  
 Moore, Thomas Murphy  
 Morel, Edward, Jr.  
 Morris, Douglas James  
 Morris, Joseph Snowden  
 Moyer, Robert Holden  
 Mulligan, Aloysius Alphonsus, Jr.  
 Munroe, Philip Reed  
 Murdick, Robert Gordon  
 Murphy, Edward Morris, Jr.  
 Murphy, Fred George  
 Murray, Lewis Graham  
 Kenilworth, Ill.  
 Tallahassee, Fla.  
 Wilmington, Del.  
 Edgewood, Pa.  
 Bishopville, S. C.  
 Durham, N. C.  
 Durham, N. C.  
 Aurora, O.  
 Lansdowne, Pa.  
 Erwin, N. C.  
 Seaford, Del.  
 Elmira, N. Y.  
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 Charlotte, N. C.  
 Salisbury, N. C.  
 Pine Grove Mills, Pa.  
 Bridgeport, Conn.  
 Ashland, Ky.  
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 New York, N. Y.  
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 Irwin, Pa.  
 Winston-Salem, N. C.  
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 Spies, N. C.  
 East Brady, Pa.  
 East Gardner, Mass.  
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 Louisville, Ky.  
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 N. Y.  
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 Harrison, N. J.  
 Braintree, Mass.  
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 Daytona Beach, Fla.  
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 Oyster Bay, L. I., N. Y.

- Myers, Dale Clifford  
 Myers, Duncan Clark  
 Myers, Hugh Kennedy  
 Nania, John, Jr.  
 Nathan, Edward C.  
 Naudain, Warner Woodward  
 Nelson, Robert Lewis  
 Neu, Herbert Arthur  
 Neuman, Frank Allen  
 Newman, B. Franklin, Jr.  
 Neyhart, Fred Trainer  
 Nichols, Ralph Sumner  
 Nickel, Harry William  
 Nobles, William Leonidas, Jr.  
 Northey, Ronald James  
 Norton, George Worthington  
 O'Briant, Lex Eugene  
 Odell, Robert Harris  
 O'Keefe, Francis Aloysius, Jr.  
 Olive, John Worth  
 Olson, Vernon Arthur  
 Orme, Griffith  
 Orr, John Barclay, Jr.  
 Owen, Judson Lewis, Jr.  
 Page, Billy Joe  
 Pann, Anthony John  
 Parke, Donald Wright  
 Parker, Richard Joseph, Jr.  
 Parkinson, William Lloyd  
 Patterson, Edward V.  
 Patterson, Herbert George, Jr.  
 Pattinson, Hulme Holmes  
 Pawley, William Douglas, Jr.  
 Payne, James Hamilton  
 Payton, John Edwin  
 Peck, David Brainard  
 Peebles, Russell Houston  
 Penhallegon, England Edward  
 Pepper, James Arthur, Jr.  
 Perdue, Willard Charles  
 Perinovich, Robert Emil  
 Perkins, Rex Beach  
 Perry, Thomas  
 Peters, Clarence Anthony  
 Peterson, Douglas Fayette  
 Phillips, Creighton Wells, Jr.  
 Phillips, Hugo Reed  
 Phillips, James Edwin  
 Pierce, Carl Preston  
 Pierce, Richard Henry  
 Pike, Robert Edgar  
 Pisani, Raymond William  
 Pittman, Marvin Summers, II  
 Pope, John Edward  
 Popp, Robert Alfred  
 Porter, Joseph Edward  
 Pratt, Clarence Hoar  
 Harrisburg, Pa.  
 Bradenton, Fla.  
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 Lancaster, Wis.  
 Marshallton, Del.  
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 Flushing, N. Y.  
 Milton, Pa.  
 Abington, Mass.  
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 Frackville, Pa.  
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 Forest Hills, L. I., N. Y.  
 New York, N. Y.  
 Durham, N. C.  
 Wautagh, N. Y.  
 Upper Montclair, N. J.  
 Miami Beach, Fla.  
 Miami Beach, Fla.  
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 El Paso, Texas  
 South Charleston, W. Va.  
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 Akron, O.  
 Chatham, Ontario, Canada  
 Miami Beach, Fla.  
 Ashland, Ky.  
 Cleveland, O.  
 Binghamton, N. Y.  
 Portsmouth, O.  
 Decatur, Ill.  
 Ingenio, Jobabo, Oriente,  
 Cuba  
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 Brooklyn, N. Y.  
 New Egypt, N. J.  
 Tampa, Fla.  
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 Winston-Salem, N. C.  
 Garden City, N. Y.  
 New Orleans, La.  
 Winston-Salem, N. C.  
 Greenville, N. C.  
 Durham, N. C.  
 Philadelphia, Pa.  
 Brooklyn, N. Y.  
 Statesboro, Ga.  
 Williamston, N. C.  
 Middletown, O.  
 Jersey City, N. J.  
 Altoona, Pa.



- Preer, Jack  
 Prettyman, Clarence James  
 Price, Glenn Fredrick  
 Price, Robert Clarke  
 Prillaman, David Crockett  
 Proctor, Richard Carlton  
 Pugh, William Marr, II  
 Pulley, Ben Junious  
 Purse, George Victor  
 Rankin, Douglas Rohrer  
 Rankin, Robert Sloan  
 Rapoport, Herman Leonard  
 Raring, John Joseph  
 Rasberry, Joseph Conklin, Jr.  
 Ray, Archibald S., Jr.  
 Reedy, Joseph S.  
 Reid, Alfred Gray  
 Rencken, Donald Robert  
 Renner, Irvin Joseph  
 Rhyne, Robert Smith  
 Ribar, Frank Andrew  
 Rickerby, Arthur Burroughs  
 Risedorf, Harry Myers  
 Robertson, Sam  
 Robinson, Donald Lane  
 Robinson, William Beverly, Jr.  
 Rogers, Burr Adair  
 Rogers, Stanfield  
 Roll, Frederick Joseph  
 Rucker, Alfred Morgan  
 Ruffa, Anthony  
 Ryan, Denis  
 Sadler, W. Thaddeus, Jr.  
 Sally, William Albert  
 Sanborn, Charles Francis  
 Sattenspiel, Edward  
 Satterwhite, Randall Griffin, Jr.  
 Sawhill, Ray Vincent  
 Saye, Wilburn Earle, Jr.  
 Sayers, Eric Russell  
 Sayre, Daniel Eugene  
 Schoonover, Carl Meredith, Jr.  
 Seeman, Wallace Emery  
 Seigle, Gordon Dilley  
 Settlemyer, Arthur Frank, Jr.  
 Shannehan, Donald Vincent  
 Sharpe, Daniel Monroe, Jr.  
 Shaw, Calvin High  
 Shaw, James Maddock  
 Sheals, Ralph Augustus, Jr.  
 Sheats, Harold Weldon, Jr.  
 Sheehan, William Palmer  
 Shelton, Claude, Jr.  
 Shepard, Allen Samuel  
 Shields, Samuel Moyer  
 Shirley, John V.  
 Shirley, William Francis  
 Shlimbaum, Charles William  
 Daytona Beach, Fla.  
 Exmore, Va.  
 Beaver Falls, Pa.  
 Ocean City, N. J.  
 Southern Pines, N. C.  
 Bronxville, N. Y.  
 Wilmington, Del.  
 Greenville, N. C.  
 Seaford, Del.  
 Camp Hill, Pa.  
 Gastonia, N. C.  
 Portsmouth, Va.  
 Pottsville, Pa.  
 Kingston, N. C.  
 Raleigh, N. C.  
 Bloomsburg, Pa.  
 Baltimore, Md.  
 Jamaica, N. Y.  
 Dayton, O.  
 Ridgewood, N. J.  
 West Aliquippa, Pa.  
 New York, N. Y.  
 Winsted, Conn.  
 Clayton, N. C.  
 Buffalo, N. Y.  
 Sayville, N. Y.  
 Wayland, N. Y.  
 Dyersburg, Tenn.  
 Glen Cove, L. I., N. Y.  
 Petersburg, Va.  
 Washington, Pa.  
 Greenville, S. C.  
 Raleigh, N. C.  
 Durham, N. C.  
 East Orange, N. J.  
 Jersey City, N. J.  
 Rochester, N. Y.  
 Pelham Manor, N. Y.  
 Columbia, S. C.  
 Flushing, N. Y.  
 Huntington, W. Va.  
 Charlotte, N. C.  
 Durham, N. C.  
 West Hartford, Conn.  
 Kannapolis, N. C.  
 Springfield, Mass.  
 Hertford, N. C.  
 Durham, N. C.  
 Bronxville, N. Y.  
 Arlington, Va.  
 Charlotte, N. C.  
 Upper Montclair, N. J.  
 Reading, Pa.  
 Palm Beach, Fla.  
 Lewes, Del.  
 Buffalo, N. Y.  
 Buffalo, N. Y.  
 Bay Shore, N. Y.

- Shokes, Edward Christopher  
Siegfriedt, Alvin William  
Silva, John Matheson  
Silverthorne, Mervin Clark  
Simpson, John Campbell  
Sisk, Earle Hoke, Jr.  
Skinner, Charles Boyd  
Smart, Thomas Davis  
Smith, Frank Monroe, Jr.  
Smith, Gerrit Curtis  
Smith, Harold Kenneth, Jr.  
Smith, Robert Percy  
Smith, Robert Ross  
Smith, Walter Gold  
Smyle, Ralph Stanley  
Snow, James Wilbur  
Snyder, Robert Edward  
Sparks, Bayne Albert  
Sprague, Roger Allen  
Stackhouse, Donald Scott  
Stanley, Horace Goodman  
Stanwood, Arthur Webster  
Stata, Charles Melvin  
Steele, Orlando Lester  
Stephens, Allan Wilbur  
Stephens, Richard Lockwood  
Stoddard, Charles Richards, Jr.  
Stoeckel, John Rowland  
Stone, Claiborne Young  
Stone, Donald Robert  
Sullivan, George Logan  
Sullivan, Harry B.  
Summers, Hubert George  
Summers, Stanley Velsor, Jr.  
Sunas, Ernest Constantine  
Sutton, Bruce Leslie  
Talcott, Jesse W.  
Tantum, Frank  
Taylor, Charles House  
Taylor, Ralph Gordon, Jr.  
Teichmann, Henry Frederick, Jr.  
Telep, John Nicholas, II  
Tewksbury, Bayard Douglas  
Thaxton, Ben Clyde, Jr.  
Thomas, James Valentine  
Thompson, Arthur Blair, Jr.  
Thompson, Eric Donald  
Thompson, William Henry  
Timberlake, Walter Carr, Jr.  
Tompkins, Everett  
Townsend, Bertram Fairley  
Tracy, Charles Capper  
Trakes, George Andrew  
Tripp, Frank Harvey, Jr.  
Tuten, Bruce Ladson  
Tweedy, Clarence Westley  
Tyler, John Anderson, Jr.  
Tyre, Stanley Gleason  
Charleston, S. C.  
Merrick, N. Y.  
Hyannis, Mass.  
Scarsdale, N. Y.  
McKeesport, Pa.  
Gastonia, N. C.  
Hartsville, S. C.  
Ft. Smith, Ark.  
Allentown, N. J.  
Madison, Conn.  
Jacksonville, Fla.  
Portland, Ore.  
Maplewood, N. J.  
Durham, N. C.  
Ozone Park, L. I., N. Y.  
Rochester, N. Y.  
Ridgefield Park, N. J.  
Washington, D. C.  
Swampscott, Mass.  
Easton, Pa.  
Durham, N. C.  
Waban, Mass.  
Needham Heights, Mass.  
Cleveland, O.  
Westfield, N. J.  
Wilmington, Del.  
New Rochelle, N. Y.  
Georgetown, Del.  
Durham, N. C.  
Kenmore, N. Y.  
Rockingham, N. C.  
St. Albans, N. Y.  
Provincetown, Mass.  
Syosset, N. Y.  
Durham, N. C.  
Poughkeepsie, N. Y.  
Joliet, Ill.  
Nutley, N. J.  
Castle Point, N. Y.  
Durham, N. C.  
Washington, Pa.  
Garfield, N. J.  
Freeport, N. Y.  
Durham, N. C.  
Florence, S. C.  
York, Pa.  
Montclair, N. J.  
New York, N. Y.  
Durham, N. C.  
Concord, Mass.  
Nutley, N. J.  
Dayton, O.  
Gastonia, N. C.  
Haddonfield, N. J.  
Charlotte, N. C.  
Turtle Creek, Pa.  
Wagener, S. C.  
Eustis, Fla.

- Valasek, Cyril John  
 Vanderlinde, Robert James  
 Van Ness, Russell Dye  
 Veirs, Charles Clifton, Jr.  
 Vennema, John  
 Vickers, Ronald  
 Vickery, Robert Fred  
 von Gal, Herbert Vreeland  
 Wade, William Earl  
 Wade, William Wallace, Jr.  
 Walker, James Bradley  
 Walker, Judith Clement  
 Walker, Ralph Harpham  
 Wallace, John Chisholm  
 Wallace, W. Scott, Jr.  
 Walsh, Davis James  
 Ward, Earl John  
 Wascher, Howard Charles  
 Watson, Charles Alan  
 Wedow, Sheridan Holly  
 Weeks, Harry Wills, Jr.  
 Wege, Charles Veit, Jr.  
 Wehunt, Lloyd Dixon  
 Weit, Leon Forrest  
 Welch, Brian Grant  
 Welch, Harry Lee  
 Welch, John Tyler  
 Welsh, William Jamieson  
 Welton, William D., Jr.  
 Wentz, Henry Stauffer  
 Werneke, Francis Henry  
 Wetmore, Robert Jackson  
 Whalen, Robert William  
 Whiteside, William Carl  
 Whitfield, Cyrus Edward  
 Whitman, Stanley Finch  
 Whitten, Edwin Emery  
 Widgery, Rolande Carpenter  
 Wilbourne, John Edward  
 Wilbur, Richard Snow  
 Williams, Henry Hoyle  
 Williams, John Dunbar  
 Willis, Andrew Hunter, Jr.  
 Willmott, James Ian  
 Wilson, Abraham Samuel  
 Wilson, Penrhyn  
 Wingender, Theodore George  
 Winkin, John Worde, Jr.  
 Winterson, Alexander Frederick  
 Winterson, Howard Martin  
 Womble, Eric Eugene  
 Woody, John King  
 Woolner, Edward Sigmund  
 Woolwine, William Cardell  
 Worcester, George Franklin, Jr.  
 Workman, Henry Dodge  
 Wotrubez, Robert  
 Wratten, William Henry  
 Ford City, Pa.  
 Rochester, N. Y.  
 Miami, Fla.  
 Rockville, Md.  
 Winnetka, Ill.  
 Durham, N. C.  
 Philadelphia, Pa.  
 Danbury, Conn.  
 Erwin, N. C.  
 Durham, N. C.  
 New Rochelle, N. Y.  
 Durham, N. C.  
 Auburndale, Fla.  
 Troy, N. C.  
 Ocean City, Md.  
 Bellerose, L. I., N. Y.  
 Larchmont, N. Y.  
 London, England  
 Baldwin, N. Y.  
 Shaker Heights, O.  
 Charlotte, N. C.  
 Washington, Pa.  
 Cherryville, N. C.  
 Ephrata, Pa.  
 Hamburg, N. Y.  
 High Point, N. C.  
 New Haven, Conn.  
 Bayside, N. Y.  
 New Rochelle, N. Y.  
 Leola, Pa.  
 Narrowsburg, N. Y.  
 Durham, N. C.  
 New Haven, Conn.  
 York, S. C.  
 Hurdle Mills, N. C.  
 Miami Beach, Fla.  
 South Portland, Me.  
 Durham, N. C.  
 Erwin, N. C.  
 Durham, N. C.  
 Hickory, N. C.  
 Babylon, N. Y.  
 Erie, Pa.  
 Greenwich, Conn.  
 Durham, N. C.  
 Valley Forge, Pa.  
 Roselle Park, N. J.  
 Englewood, N. J.  
 Hempstead, L. I., N. Y.  
 Oradell, N. J.  
 Durham, N. C.  
 Durham, N. C.  
 St. Petersburg, Fla.  
 Princeton, W. Va.  
 Tenaflly, N. J.  
 Pensacola, Fla.  
 New York, N. Y.  
 Haddon Heights, N. J.

Wright, Douglas Samuel  
 Wright, John  
 Wright, John Edward  
 Yarborough, John Archibald  
 Young, Clark Sutton  
 Young, Raymond Andrew  
 Yount, Marvin Edward, Jr.  
 Zabriskie, George  
 Zbikowski, Francis William  
 Zipse, Robert Joseph

Hagerstown, Md.  
 Mahwah, N. Y.  
 Aurora, Ill.  
 Cary, N. C.  
 Lebanon, N. J.  
 Glen Rock, N. J.  
 Graham, N. C.  
 Caldwell, N. J.  
 Terryville, Conn.  
 Kew Gardens, N. Y.

## SOPHOMORE CLASS

Abbott, John Alfred  
 Abbott, Ward Davis  
 Ade, William Henry, Jr.  
 Ader, Paul Fasset  
 Agnello, Joe A.  
 Agnello, Samuel A.  
 Albee, Fred Houdlett, Jr.  
 Albright, Robert Taft  
 Allen, Augustus T., Jr.  
 Allison, James Tyler  
 Anderson, George D.  
 Armstrong, Fred Williamson  
 Atkins, Junius Ernest, Jr.  
 Atkins, Wade Winston, Jr.  
 Atkinson, Clifton Stewart  
 Auld, Fred Herron  
 Bailey, William Bradford  
 Baird, John William  
 Baldwin, Alan Thorrestrup  
 Bane, William Hormell  
 Banks, Albert Lawrence  
 Barber, William Lawrence  
 Barden, James Floyd, Jr.  
 Barnicoat, John Ellard  
 Bass, George Carlton  
 Bassett, Roderick Emerson  
 Baylor, Norman Stanley  
 Beatty, Robert Rowe, Jr.  
 Beck, Clarence V., Jr.  
 Beckel, Frank Louis  
 Beckel, Samuel Somerville  
 Beightol, Guy Dixon  
 Bell, Robert James  
 Bender, William A., III  
 Benson, Charles Leonard  
 Berger, William A.  
 Bergman, Russell  
 Berkeley, William Thomas, Jr.  
 Berner, Guy P.  
 Bew, James William  
 Bishop Hamilton Loomis  
 Blake, Donald E.  
 Blanton, Neil Coron  
 Bolton, John Dewey  
 Bond, Borden Ray  
 Bone, Frank Cutchin

Hagerstown, Md.  
 Orchard Park, N. Y.  
 Chicago, Ill.  
 Coleridge, N. C.  
 Knox, Pa.  
 Jamestown, N. Y.  
 Colonia, N. J.  
 Whiteville, N. C.  
 Raleigh, N. C.  
 Oswego, N. Y.  
 Ballston Spa, N. Y.  
 Gastonia, N. C.  
 Raleigh, N. C.  
 Greensboro, N. C.  
 Schenectady, N. Y.  
 Charleston, W. Va.  
 New York, N. Y.  
 Henderson, Tenn.  
 Wilmington, Del.  
 Connellsville, Pa.  
 Somerville, N. J.  
 Phillipsburg, N. J.  
 Goldsboro, N. C.  
 Warwick, R. I.  
 Binghamton, N. Y.  
 Danbury, Conn.  
 Washington, N. J.  
 Charlotte, N. C.  
 Saint Louis, Mo.  
 Huntingdon, Pa.  
 Huntingdon, Pa.  
 Cumberland, Md.  
 Durham, N. C.  
 Upper Darby, Pa.  
 Tamaqua, Pa.  
 Rahway, N. J.  
 Madison, N. J.  
 Washington, D. C.  
 Buffalo, N. Y.  
 Margate City, N. J.  
 Garden City, N. Y.  
 New Rochelle, N. Y.  
 Shelby, N. C.  
 Pelham, N. Y.  
 Newton Upper Falls, Mass.  
 Rocky Mount, N. C.

- Bonnet, Joe  
 Bost, Webb  
 Boutwell, Rufus Cecil, Jr.  
 Bowers, Henry Franklin  
 Bowman, James S.  
 Brand, Roscoe C.  
 Brett, Lawrence  
 Bridgers, Ben Cole, Jr.  
 Brinn, Rufus Timothy  
 Bromage, John Stuart  
 Brooks, Clyde S., Jr.  
 Brown, Travers Gatewood, Jr.  
 Browning, John Duron  
 Brunansky, Joe L.  
 Brush, Richard Felton  
 Byrum, John Franklin  
 Cale, Ellsworth Ferrell  
 Carpenter, Robert R. M., Jr.  
 Carter, Everitt A.  
 Carter, James Walter  
 Caskey, Claude O'dell, Jr.  
 Chang, Keui Hyung  
 Chapman, John Franklin  
 Churchill, Howard William  
 Clark, Morris McCauley  
 Clarke, Finley Theodore, Jr.  
 Cobleigh, Nelson Stevens  
 Cogswell, Sumter Aldage  
 Cole, George Davis, Jr.  
 Coplan, Edwin  
 Costic, Peter J.  
 Cotter, Norman Bernard  
 Court, George Henry, Jr.  
 Covington, John Walter, Jr.  
 Cox, Zach Davis  
 Craig, J. Robert  
 Cree, John Franklin  
 Crigler, John Fielding, Jr.  
 Culbreth, George Bernice  
 Culbreth, George Gordon  
 Culp, Raymond Beatty, Jr.  
 Curtis, Frederick William  
 Davenport, John Purinton  
 Davis, Fred Payson  
 Davis, James Brady  
 Davis, Thomas Edgar, Jr.  
 Denny, Dan  
 DeVolentine, Joe Munroe  
 Diller, Fred Eugene  
 Dimond, Charles Leigh  
 Donnelly, Raymond William  
 Donnelly, Richard Augustus, Jr.  
 Donovan, Frederick Reynold  
 Dorsey, George Allan  
 Dube, Bertram James  
 Duff, Edward Hoover  
 Duncan, James Rankin, Jr.  
 Orange, N. J.  
 Charlotte, N. C.  
 Durham, N. C.  
 Petersburg, Va.  
 Harrisburg, Pa.  
 Steubenville, O.  
 Wilson, N. C.  
 Durham, N. C.  
 Hertford, N. C.  
 Cranford, N. J.  
 Bellevue, Pittsburgh, Pa.  
 Brooksville, Fla.  
 Daytona Beach, Fla.  
 Beaver Falls, Pa.  
 St. Albans, Vt.  
 Great Falls, S. C.  
 Charleston, W. Va.  
 Montchanin, Del.  
 Reading, Pa.  
 Washington, D. C.  
 Martinsburg, W. Va.  
 No-Ham-Kyung Province,  
 Korea  
 Hagerstown, Md.  
 Portland, Me.  
 Philadelphia, Tenn.  
 Morganton, N. C.  
 White Plains, N. Y.  
 Chattanooga, Tenn.  
 Newport News, Va.  
 Columbia, S. C.  
 Sayre, Pa.  
 Chattanooga, Tenn.  
 Glen Head, N. Y.  
 Rockingham, N. C.  
 Mt. Olive, N. C.  
 Clarksburg, W. Va.  
 Sunbury, Pa.  
 Charlotte, N. C.  
 Rocky Mount, N. C.  
 Sanford, N. C.  
 Harrisburg, Pa.  
 Reading, Pa.  
 Chevy Chase, Md.  
 Newport, Vt.  
 Wheeling, W. Va.  
 Rockingham, N. C.  
 Harriman, Tenn.  
 Coral Gables, Fla.  
 McComb, O.  
 Baltimore, Md.  
 South Norwalk, Conn.  
 Brielle, N. J.  
 Newark, N. J.  
 Washington, D. C.  
 Hudson Falls, N. Y.  
 Washington, D. C.  
 Jeannette, Pa.

- Eagles, William McCoy  
 Eaves, Willard Howard  
 Eckersley, Floyd R.  
 Eddy, James Henry, Jr.  
 Eitner, Lorenz E. A.  
 Eldridge, Fred Phillips  
 Elias, Bernard Lane  
 Emmett, David William  
 Enfield, Samuel Ernest  
 Erich, Frederick Walter  
 Erickson, Elmer William  
 Esberg, John Harvey  
 Eubanks, Ira Sankey, Jr.  
 Everett, Robert James  
 Fairall, Robert Foster  
 Farrell, John Cahill  
 Finger, Fred Eli, Jr.  
 Fisher, Nelson Barrier  
 Fitzgerald, James Morgan, Jr.  
 Flenner, George B.  
 Flentye, William Henry, Jr.  
 Fletcher, Theodore Roger  
 Forrester, Roy William  
 Forsberg, Raynor Morgan  
 Forssell, Gustav Frederick  
 Fraley, Harry Howard  
 Franck, William Francis, Jr.  
 Freidlin, Julius  
 Friedlander, Max  
 Fuston, Sam Del  
 Fyles, Cleveland Saunders  
 Gair, Russell Alexander, Jr.  
 Galbreath, Jack Baylor  
 Gardner, Joseph Tate  
 Gardt, Wylie  
 Garlock, Harold George  
 Garrick, Donald D.  
 Geiger, Robert K.  
 Gerard, Frank High  
 Ginsburg, John Avert  
 Gladstein, Nathan Wilbur  
 Goat, Arthur Fred  
 Gobble, Fleetus Lee, Jr.  
 Goldberg, Robert A.  
 Goldstein, Joseph Abraham  
 Goode, Thomas Vance, Jr.  
 Grady, James Daniel  
 Gray, Duncan Campbell  
 Gregson, Jack Roger  
 Griffin, Gerald Laurens  
 Griswold, Augustus Wharton  
 Gross, Alvin Solomon  
 Guerri, Davenport, Jr.  
 Hacker, John Pierce, Jr.  
 Halsema, James Julius  
 Hammell, John Gaunt  
 Handeyside, Bruce Rayms  
 Hanig, William Fred  
 Fountain, N. C.  
 Athens, Tenn.  
 Scranton, Pa.  
 Elizabeth, N. J.  
 New York, N. Y.  
 Rouses Point, N. Y.  
 Asheville, N. C.  
 New York, N. Y.  
 Cumberland, Md.  
 Queens Village, N. Y.  
 Irwin, Pa.  
 Biltmore, N. C.  
 Durham, N. C.  
 Kingston, N. Y.  
 Steelton, Pa.  
 Norwich, N. Y.  
 Kings Mountain, N. C.  
 Vanceburg, Ky.  
 Wilson, N. C.  
 Irvington, N. J.  
 Aurora, Ill.  
 Scarsdale, N. Y.  
 Dillon, Mont.  
 Emsworth, Pittsburgh, Pa.  
 Staten Island, N. Y.  
 Cherryville, N. C.  
 Durham, N. C.  
 Jacksonville, Fla.  
 Moultrie, Ga.  
 Murfreesboro, Tenn.  
 Bethel, Vt.  
 Norwich, N. Y.  
 Benham, Ky.  
 Miami, Fla.  
 Bradford, Mass.  
 Lockport, N. Y.  
 Naugatuck, Conn.  
 Washington, Pa.  
 Fayetteville, Ark.  
 Washington, Pa.  
 Durham, N. C.  
 Brooklyn, N. Y.  
 Winston-Salem, N. C.  
 North Conway, N. H.  
 Salem, N. J.  
 Statesville, N. C.  
 Kinston, N. C.  
 Pelham, N. Y.  
 Morristown, N. J.  
 New York, N. Y.  
 West Haven, Conn.  
 Atlanta, Ga.  
 Macon, Ga.  
 Detroit, Mich.  
 Baguio, Philippines  
 Red Bank, N. J.  
 Wayne, Mich.  
 Elmhurst, N. Y.



- Hank, Oscar Charles, Jr.  
 Hardie, Dwight Wooster  
 Hart, Bertram W., Jr.  
 Harvey, Harold E.  
 Hastings, Thomas Johnston, Jr.  
 Hauser, Edward Michael  
 Heaton, Robert Earl  
 Heddeshheimer, William George, Jr.  
 Heller, Robert Chester  
 Henderson, Edward Leeman  
 Hester, George William  
 Hiatt, Wilks Otho, Jr.  
 Hickey, Andrew John  
 Hill, Dan Winfield, Jr.  
 Himadi, David Ellsworth  
 Hobbs, Frederick Thomas  
 Hobstetter, William George, Jr.  
 Hoffman, William James  
 Hollyday, John Samuel  
 Horger, Eugene Leroy, Jr.  
 Horton, William S.  
 Howard, Henry Lee  
 Howe, Elliott Harroun  
 Hoyer, Frank Osman  
 Hubbell, Jay Broadus, Jr.  
 Huck, William Richard  
 Hudson, Judson Robert  
 Hutchinson, John G.  
 Ingham, Alfred Walker  
 Ingram, Charles Hal  
 Inks, Samuel Wesley, Jr.  
 Irwin, William Madison, Jr.  
 Jaffey, Herbert  
 Jenkins, William Adrian, Jr.  
 Jensen, Robert Bruce  
 Jester, Norman Towson  
 Johantgen, Richard F.  
 Johnson, Allen Starling, Jr.  
 Johnson, William Louis  
 Jones, Horace Ellis  
 Jones, Martin Evins, Jr.  
 Jones, Ralph J., Jr.  
 Jones, Robert Pepin, Jr.  
 Jones, Westerman Wilson  
 Kasik, Charles, Jr.  
 Kellermann, George Harvey  
 Kelley, Harry William  
 Kelley, Walter McCoy  
 Kelly, Converse Beach  
 Kerper, Charles Alexander  
 Kendrick, Jack Omer  
 Kerr, Walter James  
 Keusch, Allan William  
 Koerner, John Maxwell  
 Kollmar, Robert  
 Kunkle, William Koch  
 Lacks, Stanley Bernard  
 Latimer, Clarence Vinette, Jr.  
 Lautz, Robert W.  
 Paducah, Ky.  
 Binghamton, N. Y.  
 Auburndale, Fla.  
 Sprague, W. Va.  
 Westfield, N. J.  
 Jenkintown, Pa.  
 Andrews, N. C.  
 Yonkers, N. Y.  
 East Orange, N. J.  
 Detroit, Mich.  
 Morristown, N. J.  
 Savannah, Ga.  
 Staten Island, N. Y.  
 Asheville, N. C.  
 Ridgewood, N. J.  
 Wilmington, N. C.  
 Steubenville, O.  
 Hyannis, Mass.  
 Funkstown, Md.  
 Columbia, S. C.  
 Raleigh, N. C.  
 Savannah, Ga.  
 Fulton, N. Y.  
 Brookline, Mass.  
 Durham, N. C.  
 Bloomfield, N. J.  
 Sweetwater, Tenn.  
 Arlington, Va.  
 New York, N. Y.  
 High Point, N. C.  
 Dawson, Pa.  
 Sunbury, Pa.  
 Somerville, N. J.  
 Elkin, N. C.  
 Union, N. J.  
 Washington, D. C.  
 Dansville, N. Y.  
 Lexington, N. C.  
 Wheeling, W. Va.  
 Spring City, Pa.  
 Granite Falls, N. C.  
 Jamaica Plain, Mass.  
 Bayside, L. I., N. Y.  
 Wilmington, Del.  
 Milwaukee, Wis.  
 South Pittsburg, Tenn.  
 Ocean City, Md.  
 Moultrie, Ga.  
 Germantown, Pa.  
 Baltimore, Md.  
 Ripley, Miss.  
 Rumson, N. J.  
 Morristown, N. J.  
 East Paterson, N. J.  
 Maplewood, N. J.  
 Allentown, Pa.  
 North Quincy, Mass.  
 Deposit, N. Y.  
 Buffalo, N. Y.

Leland, Stuart Brandon  
 Lentz, John Luther  
 Leopoldt, Richard Warren  
 Levine, Edwin R.  
 Levy, Herbert F.  
 Lewis, Richard Quarles  
 Lewis, William Francis  
 Little, Brooks Bivens  
 Long, Max Bickford  
 Lunsford, Foy Lee  
 Lybrook, Robert Murray  
 Lyle, John Robert  
 McCalip, Curtis Edgar  
 McInnis, Alex Nott  
 McMackin, Frank S.  
 McMillin, Elbert Raymond, Jr.  
 MacGillivray, R. Fred  
 MacLauchlan, John Donald  
 Maddern, Whitby Kingston  
 Malone, Thomas Patrick  
 Maltby, Lucius Foote, Jr.  
 Manning, Benjamin Everette  
 Mariani, Roland Guilio  
 Marlowe, Rufus Edward  
 Mason, Walter Harrison  
 Megaw, Wesley Ellison  
 Melson, Robert Henry  
 Melville, Lincoln Raymond  
 Mercer, Cassa Jay, Jr.  
 Miller, Dudley Webb, Jr.  
 Miller, Graham Conrad  
 Miller, Kenneth Robert  
 Miller, Roy Paul  
 Mitchell, Henry Reid, Jr.  
 Moehring, Wallace Oher  
 Moffett, Robert Preyer  
 Moore, James LeGrand  
 Moran, Joseph Paul  
 Morgan, Horace Lee  
 Morningstar, James Irvin  
 Morris, Arthur Allen, Jr.  
 Morris, Russel S., Jr.  
 Morrow, Thomas Camill  
 Mouk, Richard Charles  
 Muelenaer, Andre Albert  
 Naudain, Leroy Parker  
 Neill, Dugald Tucker  
 Nelson, Herman Berg  
 Neuburger, Robert Frank  
 Nugent, Allen Edward  
 Ohly, Carlton Hugo  
 O'Neil, Robert Edward  
 Onken, Frederick Ludwig, Jr.  
 Orton, James Richard  
 Owen, Murray Harris  
 Owens, Herman Franklin  
 Palmer, Jack Keith  
 Park, Robert Laughlin  
 Parsons, William Kantner

New Canaan, Conn.  
 Durham, N. C.  
 Glen Rock, N. J.  
 Hancock, N. Y.  
 Birmingham, Ala.  
 Annapolis, Md.  
 Providence, R. I.  
 Fayetteville, N. C.  
 Roxboro, N. C.  
 Durham, N. C.  
 Advance, N. C.  
 Bloomsburg, Pa.  
 Washington, D. C.  
 Gulf Hammock, Fla.  
 Jersey City, N. J.  
 Fayetteville, Tenn.  
 Westfield, N. J.  
 Brockway, Pa.  
 Branford, Conn.  
 Mahanoy City, Pa.  
 Wallingford, Conn.  
 Williamston, N. C.  
 Rumson, N. J.  
 Wilson, N. C.  
 New York, N. Y.  
 New York, N. Y.  
 Forty Fort, Pa.  
 Buffalo, N. Y.  
 Baldwinsville, N. Y.  
 White Plains, N. Y.  
 Miami, Fla.  
 Endwell, N. Y.  
 Irwin, Pa.  
 Washington, N. C.  
 Orangeburg, N. Y.  
 Greensboro, N. C.  
 Raleigh, N. C.  
 Staten Island, N. Y.  
 Savannah, Ga.  
 Dawson, Pa.  
 Winston-Salem, N. C.  
 Matthews, N. C.  
 Buffalo, N. Y.  
 South Orange, N. J.  
 Laurelton, N. Y.  
 Haddon Heights, N. J.  
 Bayside, L. I., N. Y.  
 Tamaqua, Pa.  
 Maplewood, N. J.  
 New Haven, Conn.  
 Oberlin, O.  
 Hyannis Port, Mass.  
 Brooklyn, N. Y.  
 Lewes, Del.  
 Stratford, Conn.  
 Fountain, N. C.  
 Delmar, N. Y.  
 Washington, D. C.  
 Altoona, Pa.

- Paschall, Taylor Hill  
 Peabody, Arthur William  
 Peeler, Clayton Sam  
 Peirce, John A.  
 Penfield, Addison Pierce  
 Peppler, John Ray  
 Perry, John Siler  
 Peters, William D., Jr.  
 Phillips, William Hicks  
 Pierce, Frank C.  
 Pifer, Lewis W.  
 Pinkerton, David W.  
 Powers, Leonard Stewart  
 Pray, Harold Erwin  
 Price, Theodore Edwin  
 Pulliam, Samuel Thompson  
 Ralston, Adolph Henry  
 Range, James Jacob  
 Rathbun, James Potter  
 Ratliff, Cliff, Jr.  
 Reid, Laurence King  
 Reisner, William Harry, Jr.  
 Rice, Robert Coleman  
 Rich, David Adelbert  
 Richards, John Wendell  
 Richardson, John Woodward, Jr.  
 Riley, William Joseph, III  
 Roach, Benjamin F.  
 Roberts, William Wallace  
 Robertson, James Victor  
 Robinson, Roger Walcott  
 Robinson, Theodore M.  
 Rodgers, Francis Marion, III  
 Rosen, Jerome Eliot  
 Rowan, John William  
 Rue, Willard Hubert  
 Ruskin, Richard Allan  
 Russell, Henry Hawley  
 Rutledge, John Clifton  
 Sanford, Daniel D., Jr.  
 Satterthwaite, Joshua Paul, Jr.  
 Schaidt, Leander, Jr.  
 Schlear, Edward Kenneth  
 Schmidt, Howard O.  
 Seaman, Allen Lang  
 Seeberg, Gordon Allan  
 Senter, Jimmie  
 Shane, Robert Clark  
 Shannon, Charles Eugene  
 Shehan, Philip George  
 Shinn, John Lloyd, Jr.  
 Shoaf, Francis Arista  
 Simpson, Aubrey Lee, Jr.  
 Simpson, Richard B.  
 Sirven, Faustino Alberto  
 Sleight, Robert Edgar  
 Smith, David M.  
 Smith, Harwood Thomas  
 Smith, Victor K., Jr.  
 Durham, N. C.  
 Holden, Mass.  
 Staunton, Va.  
 New York, N. Y.  
 Meriden, Conn.  
 Binghamton, N. Y.  
 Durham, N. C.  
 Union City, N. J.  
 Durham, N. C.  
 Winchester, Va.  
 Durham, N. C.  
 Lakewood, O.  
 Mayodan, N. C.  
 Oak Park, Ill.  
 Maplewood, N. J.  
 Richmond, Va.  
 Middlesboro, Ky.  
 Johnson City, Tenn.  
 Fredonia, N. Y.  
 Morven, N. C.  
 Cheraw, S. C.  
 Hagerstown, Md.  
 Lakewood, O.  
 East Aurora, N. Y.  
 Scranton, Pa.  
 White Plains, N. Y.  
 Hollis, N. Y.  
 Midway, Ky.  
 Brooklyn, N. Y.  
 Athens, W. Va.  
 Concord, Mass.  
 Flushing, N. Y.  
 Detroit, Mich.  
 Portland, Me.  
 Dansville, N. Y.  
 Imlaystown, N. J.  
 New Rochelle, N. Y.  
 Coral Gables, Fla.  
 Durham, N. C.  
 Garden City, N. Y.  
 Westfield, N. J.  
 Cumberland, Md.  
 Hamburg, Pa.  
 New Canaan, Conn.  
 Madison, Conn.  
 Ansonia, Conn.  
 Morristown, Tenn.  
 Washington, D. C.  
 Monroe, N. C.  
 Easton, Md.  
 Sylacauga, Ala.  
 Kokomo, Ind.  
 Charlotte, N. C.  
 Winston-Salem, N. C.  
 Florida, Cuba  
 Westerleigh, S. I., N. Y.  
 Whiteville, N. C.  
 Petersburg, Va.  
 Montclair, N. J.

Snyder, George K.  
Sommers, Paul Adams  
Spaeth, Walter, Jr.  
Spangler, Robert Frank  
Stack, Warren Carlisle  
Stearns, James Coleman  
Stem, Thad G., Jr.  
Stephenson, Charles Edward, Jr.  
Stetler, Nevin  
Stewart, Winburn Earl  
Stivers, Robert W.  
Stone, Zeb Judd  
Storie, James C.  
Strausbaugh, John Dean  
Strickland, Fred Paul  
Strickland, Roscoe Lee, Jr.  
Struble, Albert  
Stull, Richard John  
Summerville, Alexander  
Swindell, Edmund Slade, Jr.  
Tantum, Ellwood C.  
Taylor, Joseph W., Jr.  
Thomas, James Claiborne  
Thomas, John Howard  
Thompson, Evan Lewis  
Tischler, Warren William  
Townsend, Roswell George  
Trabue, Douglas Small  
Treut, Walter Eugene  
Unger, Maurice Albert  
Varga, George Francis  
Vaughan, James Robert, Jr.  
Veal, Curry Speed  
Vernon, Leonard Joseph  
Vincent, Orville Holt  
Vogdes, James McAllister, Jr.  
Vogel, Robert Floyd  
Wade, Henry King, Jr.  
Wagner, Charles Norval  
Wagner, Walter  
Wall, George W., Jr.  
Walter, Edward Henry  
Wanzer, Charles Robert  
Ward, Robert Bruce  
Warren, Clyde Whitfield  
Watson, Jack Lawrence  
Watson, Walter Brown  
Weiner, Robert Gordon  
Weingarten, Bernard  
Weith, Archie James, Jr.  
Wert, Robert Wesley  
West, Chester Albert  
West, George Collins, Jr.  
Whitley, Carl McRay  
Williams, Bailey Needham  
Williams, Charles Bray  
Williams, Hatcher C.  
Williams, Linwood Roger  
Williams, Sam Charles

Sunbury, Pa.  
Maplewood, N. J.  
Southern Pines, N. C.  
Newport News, Va.  
Monroe, N. C.  
Jacksonville, Fla.  
Oxford, N. C.  
Varina, N. C.  
York, Pa.  
Savannah, Ga.  
Maplewood, N. J.  
West Durham, N. C.  
Liberty, N. Y.  
Columbus, O.  
Cincinnati, O.  
Maplewood, N. J.  
Westfield, N. J.  
Washington, Pa.  
Caldwell, N. J.  
Durham, N. C.  
Cream Ridge, N. J.  
Tampa, Fla.  
Durham, N. C.  
Philadelphia, Pa.  
Taunton, Mass.  
Glendale, N. Y.  
Staten Island, N. Y.  
State College, Pa.  
Rutherford, N. J.  
Patchogue, N. Y.  
Phillipsburg, N. J.  
East Aurora, N. Y.  
Madisonville, Ky.  
East Orange, N. J.  
Oak Park, Ill.  
Edgewater Park, N. J.  
Hackettstown, N. J.  
Hot Springs, Ark.  
Baltimore, Md.  
Newport, Ky.  
Philadelphia, Pa.  
Scarsdale, N. Y.  
Charlotte, N. C.  
Baltimore, Md.  
Clinton, N. C.  
Charlotte, N. C.  
Belleville, N. J.  
Portsmouth, Va.  
Brooklyn, N. Y.  
Caldwell, N. J.  
Westmont, N. J.  
Evanston, Ill.  
Durham, N. C.  
Clayton, N. C.  
Shiloh, N. C.  
Shiloh, N. C.  
Oxford, N. C.  
Washington, D. C.  
Easley, S. C.

Williams, Thomas Richard, Jr.  
 Williamson, James Clay, Jr.  
 Wilson, Eugene Glass  
 Wilson, Henry Merryman  
 Witmer, Norman Davis  
 Woodcock, Alfred W.  
 Wooddy, Arthur Overton  
 Woollard, Donald Edward  
 Workman, Fred Louis, Jr.  
 Worth, Thomas Clarkson, Jr.  
 Wright, Wayne Everett  
 Yoder, William Eugene  
 Yorke, Fred G.  
 Young, Cabell, Jr.  
 Zavlaris, Pete

Hickory, N. C.  
 Gastonia, N. C.  
 Winston-Salem, N. C.  
 Charlotte, N. C.  
 Hanover, Pa.  
 Hot Springs, Ark.  
 Baltimore, Md.  
 Chicago, Ill.  
 Kenilworth, Ill.  
 Durham, N. C.  
 Asheville, N. C.  
 Millersburg, Pa.  
 Bartley, W. Va.  
 Charlotte, N. C.  
 Indiana, Pa.

## JUNIOR CLASS

Adams, Willis Roscoe  
 Ager, John Curtis  
 Alabaster, Robert  
 Anastor, Herbert Peter  
 Anderson, Albert Lewis  
 Anderton, James F.  
 Ardolino, John C.  
 Baker, Ellis Thomson, III  
 Baldwin, John Paul  
 Baldwin, William Edwin, Jr.  
 Bard, Donald G., Jr.  
 Barnes, Jack Carlisle  
 Barton, Lee Samuel  
 Beaman, John Robert  
 Beck, Willard Sperring  
 Beckel, Willis Spangler  
 Belding, Gordon  
 Belk, William Henry, Jr.  
 Bell, George Edington, Jr.  
 Beneke, Charles Claus  
 Berini, Joe Frank  
 Bew, David Fitzsimons  
 Bigger, William Parker  
 Blake, Peter James, Jr.  
 Boger, Paul Bennett  
 Bolte, Henry Ferdinand  
 Bone, Roger Winslow  
 Bowen, James Darrel  
 Braynard, Francis Osborn  
 Bretz, George Warren, Jr.  
 Britton, John Bossard, Jr.  
 Britz, Matthew Leopold  
 Brogan, James M.  
 Brooks, Ray  
 Brown, Arthur Collins  
 Brown, Morrison Ropes  
 Brown, Theron Hart  
 Bryan, William Lyttle  
 Funn, Charles Ivy  
 Burhans, James Lewis  
 Burleson, Norris M.  
 Burns, Arthur G.

Bethel, N. C.  
 Birmingham, Ala.  
 Baldwin, N. Y.  
 Vineland, N. J.  
 Pelham Manor, N. Y.  
 Oil City, Pa.  
 Metuchen, N. J.  
 Baltimore, Md.  
 Rochester, Pa.  
 Dunn, N. C.  
 Pleasantville, N. Y.  
 Greensboro, N. C.  
 Muskogee, Okla.  
 Durham, N. C.  
 Beverly, N. J.  
 Huntingdon, Pa.  
 Summit, N. J.  
 Charlotte, N. C.  
 Rockville, Md.  
 Wheeling, W. Va.  
 Durham, N. C.  
 Margate City, N. J.  
 Pyengyang, Korea, Japan  
 New Hartford, N. Y.  
 Morganton, N. C.  
 Elmhurst, N. Y.  
 Nashville, N. C.  
 Williamston, N. C.  
 Glen Cove, N. Y.  
 Bethlehem, Pa.  
 Sumter, S. C.  
 Winston-Salem, N. C.  
 Richmond, Va.  
 Durham, N. C.  
 Bethel, Conn.  
 Swampscott, Mass.  
 Jackson Heights, N. Y.  
 Durham, N. C.  
 Spring Hope, N. C.  
 Dunbar, Pa.  
 Port Allegany, Pa.  
 Upper Darby, Pa.

Butler, Willis  
 Byrum, Thomas J.  
 Campbell, Carl Capper  
 Cannon, Edward C.  
 Carpenter, John George  
 Carter, Clayton Cann  
 Caskey, John Thomas  
 Cayce, Edgar Evans  
 Chatham, Alex, Jr.  
 Clark, Richard S.  
 Clarke, Richard Norton  
 Clayton, Charles Manning  
 Clement, Robert Alden  
 Cobb, Irvin Wilson, Jr.  
 Cohoon, William Charles  
 Cook, D. S. Taylor  
 Coppedge, Everette Peter, Jr.  
 Corbett, William Horace  
 Cox, Arthur Hunter  
 Cox, Robert L., Jr.  
 Cramer, Wellington Morley  
 Crannell, Wilbur Harrison, Jr.  
 Craven, James Braxton, Jr.  
 Crawford, Robert Gunn  
 Crawley, James Woodrow  
 Crowell, George Henry, Jr.  
 Crumpacker, William Johnson  
 Daane, James Dewey  
 Danner, Edgar LeMoynes  
 Davis, James Cooke  
 Dawson, Archibald Nail  
 Der Tatevasian, Roosevelt Augustus  
 Deupree, William James, Jr.  
 Dibeler, Vernon Hamilton  
 Di Sabatino, Mauro A.  
 Dollard, John Taff  
 Dotter, Richard A.  
 Doyle, William Stowell  
 Drake, Elmer Frederick  
 Drake, William E.  
 Duncan, Leroy Edward, Jr.  
 Dworsky, Bernard Ezra  
 Eager, Howard, Jr.  
 Edwards, Fred Charles  
 Edwards, Newton W.  
 Elder, Guy Hampton, Jr.  
 Emory, Earl Leroy, Jr.  
 Falciani, Romeo Alfred  
 Faulkner, Clifford Ross  
 Ferguson, Richard Edward, Jr.  
 Ferris, H. Alexander  
 Few, Kendrick Sheffield  
 Fickes, William Heim  
 Finn, Walter Robert  
 Fischer, A. Gordon  
 Fleetwood, John Kenneth  
 Fliflet, Arne Thorlief  
 Floyd, Hal Stanfield  
 Fogg, Charles Watson

Shreveport, La.  
 Great Falls, S. C.  
 Asheville, N. C.  
 Murfreesboro, Tenn.  
 Hague, N. Y.  
 Centerville, Md.  
 Washington, D. C.  
 Virginia Beach, Va.  
 Elkin, N. C.  
 Philadelphia, Pa.  
 Upper Montclair, N. J.  
 Harrisburg, Pa.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Columbia, N. C.  
 Kenmore, N. Y.  
 Cleveland Heights, O.  
 Wilmington, N. C.  
 Shaker Heights, O.  
 Mt. Olive, N. C.  
 Brooklyn, N. Y.  
 Loudonville, N. Y.  
 Charlotte, N. C.  
 West Point, Miss.  
 Greensboro, N. C.  
 High Point, N. C.  
 Durham, N. C.  
 Grand Rapids, Mich.  
 Larchmont, N. Y.  
 Greenville, Pa.  
 Lakewood, O.  
 North Braddock, Pa.  
 Ft. Mitchell, Ky.  
 Roselle Park, N. J.  
 Wilmington, Del.  
 Great Lakes, Ill.  
 Freeport, N. Y.  
 Lowell, Mich.  
 Roselle Park, N. J.  
 East Orange, N. J.  
 Norfolk, Va.  
 Durham, N. C.  
 Washington, D. C.  
 Bloomsburg, Pa.  
 Chicago, Ill.  
 Columbia, S. C.  
 Oriental, N. C.  
 Hammonton, N. J.  
 Elmhurst, N. Y.  
 Clinton, S. C.  
 New York, N. Y.  
 Durham, N. C.  
 Newport, Pa.  
 Palmyra, N. J.  
 Baltimore, Md.  
 Seaford, Del.  
 Mountain Lakes, N. J.  
 Fairmont, N. C.  
 East Lynn, Mass.



- Foote, Theodore  
 Forlines, John Arthur, Jr.  
 French, Charles Ferris  
 Furlong, John Hamilton, Jr.  
 Gallo, Frederick John  
 Gamsby, John Woodruff  
 Gannon, Paul Thomas  
 Gattis, Walter Robert, Jr.  
 Gayle, Miles Alderman  
 Gibson, J. Nelson, Jr.  
 Gillis, Philip Hugh  
 Glasson, John  
 Glenn, Henry Clarence  
 Goehrig, John Appleget  
 Gonder, Lindsay Andrew  
 Goode, Richard William  
 Gordon, Eugene Andrew  
 Graves, James Endsley  
 Gregg, William Riley  
 Haas, Robert Otto  
 Hancock, Albert Delos  
 Harris, Douglas Leroy  
 Hartlieb, Robert Louis  
 Hatch, John Palmer  
 Hathaway, George William  
 Haufler, Robert Cooke  
 Hayes, Kiffin Rockwell  
 Hege, John Roy, Jr.  
 Herman, Samuel  
 Hess, Robert Eugene  
 Hinnant, William Walker, Jr.  
 Hitch, Robert Arthur  
 Hobgood, Alton Arthur  
 Hodde, Henry Busch  
 Hoffman, Gish Norman  
 Hoggan, Laurence Edward, Jr.  
 Holding, Willis Askew, Jr.  
 Holmes, Reid Thomas  
 Horack, Benjamin S.  
 Horne, Stephen Francis  
 Howard, John Couper  
 Hoyle, Alton Reid  
 Hoyle, David Wade  
 Hudgins, Herbert Caldwell  
 Hudson, W. Hill, Jr.  
 Hulme, William S. N.  
 Hurlbut, John Hovey  
 Hutchinson, Robert A., Jr.  
 Inglis, Edward Sylvester  
 Ingraham, Dorman Carlton  
 Ingram, John Edgar  
 Jackson, Henry Wirt  
 James, Robert Louis  
 James, Walter Delos  
 Jancsics, Mathew Joseph  
 Jerome, Walter Gray, Jr.  
 Johnson, Edward Harold, Jr.  
 Johnson, Walter C., Jr.  
 Jones, Curtis Scott  
 Newark, N. J.  
 Durham, N. C.  
 Mountain Lakes, N. J.  
 Chester, Pa.  
 Vineland, N. J.  
 New Haven, Conn.  
 Glen Rock, N. J.  
 Durham, N. C.  
 High Point, N. C.  
 Gibson, N. C.  
 Arlington, N. J.  
 Durham, N. C.  
 Eufaula, Ala.  
 Trenton, N. J.  
 Oakland, Md.  
 Newton, Mass.  
 Brown Summit, N. C.  
 Richmond, Va.  
 Deer Park, Md.  
 New York, N. Y.  
 Port Washington, N. Y.  
 Camden, Del.  
 Wantagh, N. Y.  
 White Plains, N. Y.  
 Bellaire, O.  
 East Orange, N. J.  
 Charlotte, N. C.  
 Winston-Salem, N. C.  
 Savannah, Ga.  
 Fairmont, W. Va.  
 Raleigh, N. C.  
 Wilmington, Del.  
 Durham, N. C.  
 Highland Park, Mich.  
 Elizabethtown, Pa.  
 New Haven, Conn.  
 Raleigh, N. C.  
 Wildwood, N. J.  
 Durham, N. C.  
 Farmington, N. C.  
 Savannah, Ga.  
 Asheville, N. C.  
 Durham, N. C.  
 Norfolk, Va.  
 Shelby, N. C.  
 Jackson Heights, N. Y.  
 Oak Park, Ill.  
 Forest Hills, L. I., N. Y.  
 Great Neck, N. Y.  
 New York, N. Y.  
 Lewes, Del.  
 Richmond, Va.  
 Petersburg, Va.  
 Washington, D. C.  
 Newark, N. J.  
 Winston-Salem, N. C.  
 Orlando, Fla.  
 Chattanooga, Tenn.  
 Swarthmore, Pa.

Jones, John Benjamin  
Jones, Paul Kingsbury  
Jordan, Macon  
Kahle, John Roscoe  
Kennedy, Robert Freeman  
Kerman, Herbert David  
Kerr, Ben Ransom  
Kevil, Laban Hunter  
Kidd, Stephen  
Kingsbery, Curtis Lusk  
Kirsch, Jack H.  
Knight, Richard Wallace  
Kogelschatz, Louis William  
Koop, Chester Sedgewick  
Kreiser, C. Frederick  
Kuemper, Lee Maurice  
Lamb, Robert Gilmore  
Lambeth, Ralph M.  
Landreth, Charles E.  
Lange, John Arthur  
Lapointe, John B.  
Leckie, James Alexander  
Lee, Francis Brown  
Lenox, Walter Stanley  
Lentz, Julian Carr, Jr.  
Levinson, Joe Herman  
Levy, Leonard Daniel  
Littler, James William  
Lohman, Robert Maurice  
Lovell, Ernest James, Jr.  
Lowenstein, Hubert Roof  
Lutz, Carl Frederick  
Lyons, Wilbert A.  
Lyttle, John Logan  
McCord, Thomas Isaac  
McDonough, Bernard William  
McGimsey, James Franks, Jr.  
McKee, Sterling E.  
McKenzie, Lionel Wilfred  
McLain, William Campbell, Jr.  
Macdonald, Richard Watson  
MacLeod, Duncan Kennedy  
Manbeck, John Norman  
Markham, Frank Turner  
Marshall, Archibald George  
Mason, Howard Patrick  
Meldrum, George Boysen  
Merchant, Robert Eugene  
Miles, Charles N.  
Miller, Garfield L., Jr.  
Miller, William E., Jr.  
Minor, John T.  
Mitchell, Phil, II  
Moffitt, Franklyn Monroe  
Moise, Davis DeLeon  
Montgomery, James Scott  
Moore, Hervey S., Jr.  
Moorhead, Charles Albert  
Morgan, Clinton W., Jr.  
Tyrone, Pa.  
Salem, Mass.  
Mount Airy, N. C.  
Columbus, O.  
Montclair, N. J.  
West Palm Beach, Fla.  
Murfreesboro, Tenn.  
Princeton, Ky.  
Penns Grove, N. J.  
Pensacola, Fla.  
Rockingham, N. C.  
Middletown, N. Y.  
Martinsburg, W. Va.  
Islip, L. I., N. Y.  
Lebanon, Pa.  
New York, N. Y.  
Rochester, N. Y.  
Thomasville, N. C.  
Winston-Salem, N. C.  
Salineville, O.  
Meriden, Conn.  
Rego Park, L. I., N. Y.  
Monroe, N. C.  
Ridgefield Park, N. J.  
Durham, N. C.  
Benson, N. C.  
Durham, N. C.  
Manlius, N. Y.  
Fort Wayne, Ind.  
Raleigh, N. C.  
Irvington, N. J.  
Brooklyn, N. Y.  
Ridgewood, N. J.  
New York, N. Y.  
Wiconisco, Pa.  
Terryville, Conn.  
Morganton, N. C.  
Bessemer, Pa.  
Montezuma, Ga.  
Columbia, S. C.  
Bloomfield Hills, Mich.  
Buffalo, N. Y.  
Lewistown, Pa.  
Tiptonville, Tenn.  
Branford, Conn.  
Hollywood, Cal.  
Langhorne, Pa.  
Wilkinsburg, Pa.  
Seymour, Conn.  
Coral Gables, Fla.  
Sunbury, Pa.  
Batavia, N. Y.  
Rock Island, Ill.  
Rockville Center, N. Y.  
Sumter, S. C.  
White Plains, N. Y.  
Sea Girt, N. J.  
Sunbury, Pa.  
Lombard, Ill.

- Moritz, John Marines  
 Morrissey, John Edward  
 Morse, William Albert  
 Murfree, Matt Brickle, Jr.  
 Murray, James Joseph, Jr.  
 Nailor, Irvin LeRoy, Jr.  
 Nath, Laurence H.  
 Neikirk, William Irvin  
 Nesbitt, William Reynolds, Jr.  
 Nichols, Arthur Dewey  
 Nickerson, Charles Henry  
 Nunn, Henry Philip  
 Olson, Wallace Bruce, Jr.  
 O'Mara, Robert James  
 Oviatt, Milton Payne  
 Owens, Alfred Lemuel  
 Paredes, Paul Emile  
 Parsons, John Robert, Jr.  
 Pattillo, Robert Roy, Jr.  
 Perrell, Francis Arthur  
 Peters, Paul Robert  
 Peters, William Anthony, Jr.  
 Pharo, George Macpherson  
 Plaster, William Emory  
 Powell, Joe Reade  
 Powers, William James  
 Preyer, Al Oeam  
 Puckett, Robert Stephens  
 Radtke, Robert August  
 Rague, John Raymond  
 Ramer, Jack Carroll  
 Ramsey, Charles Stanley Wesley, Jr.  
 Rand, Robert Collom  
 Rausch, Norman Wesley  
 Rawls, Ashburn LeRoy  
 Ray, George Irving, Jr.  
 Read, Elkin, Jr.  
 Reavis, Hubert Rankin  
 Rees, Hal Collins  
 Reid, Roddey, Jr.  
 Reinhart, John Belvin  
 Rhodes, William Luther  
 Robb, Spencer Hamilton  
 Rogers, James Forbes  
 Rose, Jim Valentine  
 Rosenthal, Harry Ellis  
 Ross, Robert Enright  
 Rowley, Kenneth Johnson  
 Rumsey, Herman  
 Ruskin, Alvin Richard  
 Rynd, Laurence Noble  
 Samuels, Irving Leonard  
 Sawyer, Thomas B.  
 Schendorf, Hilliard A.  
 Scott, Donald Justin  
 Scott, Joe W.  
 Scott, LeRoy A.  
 Senff, Thomas Prewitt  
 Enka, N. C.  
 Flushing, N. Y.  
 Lakemont, Ga.  
 Murfreesboro, Tenn.  
 Port Washington, N. Y.  
 Camp Hill, Pa.  
 Middletown, N. Y.  
 Hagerstown, Md.  
 Durham, N. C.  
 Abington, Mass.  
 Torrington, Conn.  
 Winston-Salem, N. C.  
 Plainfield, N. J.  
 Ashland, Ky.  
 Hamden, Conn.  
 Wilson, N. C.  
 San Pedro Sula, Honduras,  
 C. A.  
 Murfreesboro, Tenn.  
 Atlanta, Ga.  
 Miami, Fla.  
 Lehigh, Pa.  
 Elizabeth City, N. C.  
 Moorestown, N. J.  
 Leesburg, Va.  
 Durham, N. C.  
 Pleasantville, N. Y.  
 Cleveland Heights, O.  
 Birmingham, Ala.  
 Detroit, Mich.  
 Queens Village, L. I., N. Y.  
 Kenton, Tenn.  
 Charlotte, N. C.  
 Park Ridge, Ill.  
 Maplewood, N. J.  
 South Norfolk, Va.  
 Charlotte, N. C.  
 Ebsenburg, Pa.  
 Clarendon, Texas  
 Fayetteville, Tenn.  
 Rock Hill, S. C.  
 Merrill, Wis.  
 Estill, S. C.  
 Athens, Tenn.  
 Upper Montclair, N. J.  
 Richmond, Va.  
 Winston-Salem, N. C.  
 Baltimore, Md.  
 Hamden, Conn.  
 Lookout Mountain, Tenn.  
 New Rochelle, N. Y.  
 Brooklyn, N. Y.  
 Baltimore, Md.  
 Greensboro, N. C.  
 Rahway, N. J.  
 West Palm Beach, Fla.  
 Live Oak, Fla.  
 Kannapolis, N. C.  
 Mt. Sterling, Ky.

Shackelford, Daniel Owen  
 Shackleton, John Henry  
 Shapiro, David Joseph  
 Shepard, Vitol Samuel  
 Sherron, Roger Jackson, Jr.  
 Shuff, Landon Earle  
 Simmons, Clarence Frederick, Jr.  
 Singletary, William Edward  
 Sink, Henry Harrison  
 Slatkin, Robert E.  
 Slay, Ronald Joseph  
 Sloan, Harvey F.  
 Sloan, Robert Love  
 Small, Philip Arthur  
 Smith, Fred Firth  
 Sparks, Gilbert Ray  
 Sprott, Thomas Zenas, Jr.  
 Spurgin, Charles Dorsey  
 Staley, Edwin Lewis  
 Stamaton, Jack C.  
 Stamey, Robert Henry  
 Stankowitch, William  
 Stephens, Hal Calvin  
 Stone, George Henry, Jr.  
 Stovall, Sidney  
 Strickland, James Millard  
 Sutton, Wilton Carey  
 Taylor, Hoy, Jr.  
 Terry, Emerson W.  
 Thomas, James Bartholow  
 Thompson, Kearns Reid, Jr.  
 Tipton, Eric Gordon  
 Tracy, William Edward  
 Truax, Oliver W., Jr.  
 Truesdale, Sidney Louis  
 Turner, Linwood Lee, Jr.  
 Turner, Milford P.  
 Turner, Stanley John  
 Van Voorhis, Robert Henry  
 Vick, Giles Wesley, Jr.  
 Vinson, J. William  
 Voittle, Charles Barnes  
 von Sothen, Edward A., Jr.  
 Waldron, Robert Edward  
 Walker, Carlin Osborne  
 Walker, Richard C.  
 Wallace, Arthur  
 Wallace, James Matthews  
 Walter, George  
 Warth, Henry Kent  
 Watson, Edward Louis  
 Weber, John Joseph  
 Webster, Christopher Rowland  
 Wenzel, Herman Godfrey, Jr.  
 Westerfield, Stanley W.  
 Whitaker, Howard, Jr.  
 Whitford, James Bryan  
 Whitted, Hugh Edwin, Jr.  
 Will, Daniel Carl, Jr.  
 Durham, N. C.  
 Springfield, Pa.  
 New York, N. Y.  
 Palm Beach, Fla.  
 Durham, N. C.  
 Greenville, N. C.  
 Rockville Center, N. Y.  
 Winston-Salem, N. C.  
 Greensboro, N. C.  
 Weehawken, N. J.  
 Greenville, N. C.  
 Bellevue, Pa.  
 Waynesville, N. C.  
 Charlotte, N. C.  
 Short Hills, N. J.  
 West Palm Beach, Fla.  
 Charlotte, N. C.  
 Baltimore, Md.  
 Harrisburg, Pa.  
 Stamford, Conn.  
 Lawndale, N. C.  
 Ridgefield Park, N. J.  
 Morristown, Tenn.  
 Worcester, Mass.  
 Virgilina, Va.  
 Rocky Mount, N. C.  
 Jackson, Miss.  
 Milledgeville, Ga.  
 Montclair, N. J.  
 Frederick, Md.  
 Reidsville, N. C.  
 Petersburg, Va.  
 Stockbridge, Mass.  
 Martins Ferry, O.  
 Waynesville, N. C.  
 Durham, N. C.  
 Clayton, N. J.  
 Upper Montclair, N. J.  
 Rutherford, N. J.  
 Greensboro, N. C.  
 Tampa, Fla.  
 Weston, W. Va.  
 Jamaica, N. Y.  
 Youngs, N. Y.  
 Westport, N. Y.  
 Moorestown, N. J.  
 Elizabeth, N. J.  
 Moorestown, N. J.  
 Bronxville, N. Y.  
 Baltimore, Md.  
 Tuckahoe, N. Y.  
 Newark, N. J.  
 Tappahannock, Va.  
 Rockville Center, N. Y.  
 Charlotte, N. C.  
 Windsor, Conn.  
 New Bern, N. C.  
 West Durham, N. C.  
 Drexel Hill, Pa.

Williams, Denny DuBose  
 Williams, Edwin Lesslie, Jr.  
 Williams, Joseph Lake  
 Williams, Pleasant Hardin  
 Williams, William O.  
 Willis, Noble Sensor  
 Winburn, Robert Jones  
 Wood, Melvin Nichols  
 Woodard, Marshall Wayne  
 Wylie, Marvin Miller  
 Wyman, Robert Bruce  
 Yearns, Wilfred Buck, Jr.

Richmond, Va.  
 Rock Hill, S. C.  
 Easley, S. C.  
 Ashland, Ky.  
 Southold, N. Y.  
 Wilmington, Del.  
 Midville, Ga.  
 Dalton, Mass.  
 Asheville, N. C.  
 Princeton, Ky.  
 Arlington, Mass.  
 Louisville, Ga.

## SENIOR CLASS

Adcock, John Frederick  
 Almand, A. J.  
 Arnold, Robert Hickman  
 Bailey, J. Eugene  
 Baily, George  
 Bane, David Morgan  
 Barry, Edward Earl, Jr.  
 Bierstein, Joseph F., Jr.  
 Blackburn, Linwood Earl  
 Boeker, Robert Otto  
 Bowers, Lawrence R.  
 Bowman, Thomas Edward, Jr.  
 \*Bradsher, Arthur Brown, Jr.  
 Bransford, Paul Wesley  
 Bremer, Roger Edward  
 Brown, William Elwood  
 \*Brundage, Jesse Powell  
 Brundage, Oliver Hooper  
 Buckey, Charles Young  
 Buckingham, Walter Harlow  
 Bynum, George Taylor  
 \*Callaghan, Chadwick  
 Cameron, Edward  
 Campbell, John Morgan  
 Carl, Herbert A.  
 Carl, Joseph M.  
 Caroon, William Joseph, Jr.  
 Carson, William Longworth  
 Clark, George Warren  
 Clark, Harry Vincent  
 Clay, Albert Greene  
 \*Clay, C. Stafford  
 Clover, Carl  
 Coe, John Douglas  
 Coen, Thomas Graham, Jr.  
 Colson, James T.  
 Cooke, Russell Yale, Jr.  
 Cooper, Samuel Arthur  
 \*Corbett, Waddell A.  
 Courtney, William Marshall  
 \*Cousins, James F.  
 Cox, Nathan  
 Cozart, David Lester, Jr.  
 Crawford, Clark Alvin

Pottsville, Pa.  
 Little Rock, Ark.  
 Wilkinsburg, Pa.  
 Fort Wayne, Ind.  
 Canandaigua, N. Y.  
 Uniontown, Pa.  
 Lansdowne, Pa.  
 Harrisburg, Pa.  
 Fayetteville, N. C.  
 Seymour, Conn.  
 Whiteville, N. C.  
 Harrisburg, Pa.  
 Montreal, Quebec, Canada  
 Anderson, Ind.  
 Elmira, N. Y.  
 Newton, Pa.  
 Clarksburg, W. Va.  
 Upland, Pa.  
 Akron, O.  
 Bradford, Pa.  
 Winston-Salem, N. C.  
 Brooklyn, N. Y.  
 Pine View, N. C.  
 Uniontown, Pa.  
 Poughkeepsie, N. Y.  
 Harrisburg, Pa.  
 New Bern, N. C.  
 Euclid, O.  
 Waterloo, N. Y.  
 Richmond Hill, N. Y.  
 Mount Sterling, Ky.  
 Coral Gables, Fla.  
 Knox, Pa.  
 Waterbury, Conn.  
 Bay Shore, L. I., N. Y.  
 Brunswick, Ga.  
 Evanston, Ill.  
 New London, Conn.  
 Wilmington, N. C.  
 Charlotte, N. C.  
 Durham, N. C.  
 Clarkton, N. C.  
 Raleigh, N. C.  
 Elmira Heights, N. Y.

\*Requirements for graduation completed in Summer School, 1937.

- Cure, Jack Christie  
 Curtis, Paul Makepeace  
 Curtiss, Gordon W., Jr.  
 Darling, Byron Clary  
 \*Dator, Frank  
 Dennis, Frank Ditmars  
 Derr, Paul Franklin  
 DeVoe, Charles Wood  
 Doniger, Walter J.  
 Dowling, Arthur Joseph  
 Doyle, Robert Staughton  
 Eakin, LeRoy, Jr.  
 Earngey, Willard Phelps, Jr.  
 Edwards, James Francis  
 Eltinge, William S.  
 Evans, Henry Simpson  
 \*Ewing, Nathaniel  
 Fager, Joseph Shearer  
 Fair, David Arthur  
 Farrar, Danny R.  
 Farrar, William Baker, Jr.  
 Feagins, Carroll Spurgeon  
 Ferguson, Benjamin Troy, Jr.  
 \*Few, William  
 Fine, Milton  
 Finn, Thomas Daniel  
 Fischer, Charles Henry, Jr.  
 \*Fischer, Walter Leonard  
 \*Fisher, John L.  
 Fitzpatrick, Francis James, Jr.  
 Flowers, Harold Lee  
 Floyd, John Lewis  
 \*Folsum, Kenneth  
 Foulk, William T., Jr.  
 Frampton, George Thomas  
 \*Fretwell, Joe  
 Funkhouser, J. Ott, Jr.  
 Gager, John J.  
 Gale, Elmer Thomas  
 Garber, Murray Roger  
 Garland, Porter Hickman  
 Gerard, Frank Thomas, Jr.  
 \*Gilpin, Richard  
 Gorin, Jeremiah J.  
 Gould, Robert Kent  
 Greenawalt, Robert  
 Greenfield, Bruce Harold  
 Greenwood, Porter C.  
 Griffith, James Maurice, Jr.  
 Griffiths, William H., Jr.  
 \*Guerin, F. L.  
 Haardt, Werner William  
 Haas, Richard Gibson  
 Hackney, Elmore Howard  
 \*Hall, Robert F.  
 Hallock, Charles Benjamin  
 Hamilton, Robert Alexander, Jr.  
 Hanes, Newton H.  
 Pine Hill, N. Y.  
 Greensboro, N. C.  
 Atlanta, Ga.  
 Stamford, Conn.  
 Mahwah, N. J.  
 Morristown, N. J.  
 West Hazleton, Pa.  
 Warren, O.  
 Palisades, N. J.  
 Savannah, Ga.  
 Washington, D. C.  
 Washington, D. C.  
 San Marcos, Texas  
 Oxford, N. C.  
 Kingston, N. Y.  
 Durham, N. C.  
 Vincennes, Ind.  
 Camp Hill, Pa.  
 Altoona, Pa.  
 Youngstown, O.  
 Summerville, Ga.  
 Baxley, Ga.  
 Raleigh, N. C.  
 Durham, N. C.  
 Hattiesburg, Miss.  
 Shelton, Conn.  
 West Haven, Conn.  
 Elizabeth, N. J.  
 Lakewood, O.  
 Maplewood, N. J.  
 Hickory, N. C.  
 Gasburg, Va.  
 Washington, D. C.  
 Cochranville, Pa.  
 Scarsdale, N. Y.  
 Miami Beach, Fla.  
 Hagerstown, Md.  
 Yantic, Conn.  
 Clinton, N. C.  
 Bradford, Pa.  
 West Asheville, N. C.  
 Grenada, Miss.  
 Maplewood, N. J.  
 Cristobal, Canal Zone  
 Hamburg, N. J.  
 Harrisburg, Pa.  
 Philadelphia, Pa.  
 Mountain Rest, S. C.  
 Harrisburg, Pa.  
 Great Neck, L. I., N. Y.  
 South Orange, N. J.  
 Montclair, N. J.  
 Youngstown, O.  
 Durham, N. C.  
 Charleston, W. Va.  
 Elmira, N. Y.  
 Ridgefield Park, N. J.  
 Winston-Salem, N. C.

\* Requirements for graduation completed in Summer School, 1937.



- \*Happel, B. Albert  
Harrell, Haywood L.  
Harris, Joe Frank
- \*Harrison, Charles L., Jr.  
Hartz, Fred Hans  
Hassel, Merrill Lynwood  
Hausser, Harry Edward
- \*Hays, Leopold Mozart  
Heise, Kenneth Christian  
Hench, William Stuart, Jr.  
Herndon, Fred Jackson  
Herring, Benjamin Marshal
- \*Hill, David Alan  
Hill, Drew Davidson
- \*Hinck, Robert Henry  
Hoag, Jerome Edward, Jr.  
Hoffman, Charles Robert  
Hoffman, Richard Sterling  
Hollowell, Robert Louis  
Hooten, Charles Edward  
Hopper, Addison Weaver
- \*Horsley, William Nolen
- \*Horton, Harry Leonidas, Jr.  
Hottenstein, Rahn Lincoln  
Hubbell, Robert Bolles  
Hudson, Boyd Ellyson, Jr.  
Isaacs, Richard Alfred  
Jantzen, Nelson R.  
Jaquet, Paul Franz, Jr.  
Jenkinson, Harvey Thorndyke  
Jennings, Louis B.
- \*Johnson, Roy Ruggles
- \*Johnston, Dana
- \*Johnston, John Wesley  
Jones, Thomas O.  
Kaye, Duncan Griffith  
Keane, Richard Carens
- \*Kellogg, Mitchell  
Kelly, Edward Howard  
Kimmel, Andrew Lloyd  
Kingman, Robert W.  
Kleban, Theodore  
Knapp, Robert Stephen  
Knight, Arthur W.  
Koop, Charles T.  
Kuperman, Jesse Paul
- \*Kurtz, Harold K.  
Lampe, William Lee  
Landis, William Bechtel, Jr.  
Leavenworth, Robert Wing  
Leyrer, William Chase  
Liana, Frank John  
Lipscomb, Woodrow Pershing  
Little, James C.  
Lockwood, George Thomas  
Lockwood, John A., Jr.  
Long, Arthur Robert, Jr.  
Long, George Bryan
- Blue Ridge Summit, Pa.  
Rich Square, N. C.  
Raleigh, N. C.  
Cape Girardeau, Mo.  
Bayonne, N. J.  
Quarryville, Pa.  
Scranton, Pa.  
Enfield, N. H.  
Berwyn, Ill.  
Harrisburg, Pa.  
Durham, N. C.  
Greenville, N. C.  
Westfield, N. J.  
Sasser, Ga.  
Milburn, N. J.  
Holyoke, Mass.  
Easton, Pa.  
Cincinnati, O.  
Hertford, N. C.  
Newport News, Va.  
Maplewood, N. J.  
Belmont, N. C.  
Albemarle, N. C.  
Millersburg, Pa.  
Washington, D. C.  
Jeffs, Va.  
New York, N. Y.  
Philadelphia, Pa.  
Delmar, N. Y.  
Bellevue, Pa.  
Lynchburg, Va.  
Upton, Mass.  
Ulster, Pa.  
Roanoke, Va.  
High Point, N. C.  
Troy, N. Y.  
Petersburg, Va.  
New Canaan, Conn.  
Brooklyn, N. Y.  
Pottsville, Pa.  
South Easton, Mass.  
Carteret, N. J.  
Belleville, Ill.  
Durham, N. C.  
Islip, N. Y.  
Jersey City, N. J.  
Lebanon, Pa.  
Harrisburg, Pa.  
Scranton, Pa.  
New Haven, Conn.  
Bay Shore, N. Y.  
Brooklyn, N. Y.  
Hinton, W. Va.  
Raleigh, N. C.  
Moorestown, N. J.  
Verona, N. J.  
Birmingham, Ala.  
Harrisburg, Pa.

\* Requirements for graduation completed in Summer School, 1937.

- Lowell, Herbert G., Jr.  
 Lucas, Chester L.  
 McCann, Frank Bates  
 McCann, Walter Ray  
 McCoy, John Oliver  
 McCracken, Charles William  
 McGarrity, John A.  
 McGaughy, John Bell  
 Mack, Edwin Van Tuyt  
 \*Mackie, Joseph R.  
 Main, J. Fulton  
 Mann, John Wilton  
 Mansell, Jack Carver  
 Marr, Samuel Wade, Jr.  
 Marshall, William  
 Martin, Charles Keene  
 Martin, James Marion  
 Mason, Fred Cather  
 Masset, Andrew Hyatt  
 Mathews, Edward Gilbert  
 Mathey, Frank Arthur  
 Meyer, Joseph Wight  
 \*Miller, John C.  
 Miller, William John, Jr.  
 \*Moore, James H.  
 Moran, William  
 \*Morelock, George L.  
 Morris, James Terry  
 Mueller, Carl Herman  
 Murphy, Charles Baez  
 Murphy, Valentine Lawrence  
 \*Muse, Jesse Phillip  
 Myres, Hillman Burnett  
 Newbold, Malcolm, Jr.  
 Newens, Richard Scott  
 Nixon, Pennington Mason  
 \*Northcutt, Charles  
 Northrup, Richard W.  
 Olesen, Oscar Ernest  
 Orton, Stuart  
 \*Owens, William Geiger  
 Owens, William Robert, Jr.  
 \*Palmgren, Einer Alexander, Jr.  
 \*Patterson, George Enslen, Jr.  
 \*Paulsen, Douglas  
 Pawling, Arthur S.  
 Pedersen, Peder Malvin  
 Pengelly, Donald Albert  
 Perry, Norvin A., Jr.  
 \*Peters, Frank Stanley  
 \*Petersen, Arthur M., Jr.  
 Pfann, Harry F.  
 \*Pickard, John D.  
 Plumb, John J.  
 Pons, Walter  
 Pope, Harrell  
 Pope, Marvin Hoyle  
 Post, Edward Ernest, Jr.  
 Westbrook, Me.  
 Hopkinton, Mass.  
 Petersburg, Va.  
 Petersburg, Va.  
 Glen Jean, W. Va.  
 Ardmore, Pa.  
 Trenton, N. J.  
 Virginia Beach, Va.  
 Rutherfordton, N. C.  
 Philadelphia, Pa.  
 Kingston, N. Y.  
 Durham, N. C.  
 Maplewood, N. J.  
 Elizabeth City, N. C.  
 Vinton, Va.  
 Leaksville, N. C.  
 Graham, N. C.  
 Upper Darby, Pa.  
 Mount Vernon, N. Y.  
 Hamden, Conn.  
 New York, N. Y.  
 East Orange, N. J.  
 Rutherford, N. J.  
 Philadelphia, Pa.  
 Canton, N. C.  
 Richmond, Va.  
 Nashville, Tenn.  
 Florence, Ala.  
 Lakewood, O.  
 Brooklyn, N. Y.  
 South Coventry, Conn.  
 Savannah, Ga.  
 Gainesville, Fla.  
 Manhasset, N. Y.  
 Ithaca, N. Y.  
 Rome, Ga.  
 Durham, N. C.  
 Rutherford, N. J.  
 Lynbrook, N. Y.  
 Rahway, N. J.  
 Clarksburg, W. Va.  
 Covington, Va.  
 Charlotte, N. C.  
 Eau Gallie, Fla.  
 Baldwin, L. I., N. Y.  
 Westfield, N. J.  
 Durham, N. C.  
 Zanesville, O.  
 Perry Park, Ky.  
 Nanticoke, Pa.  
 Lynbrook, N. Y.  
 Mountain Lakes, N. J.  
 Charlotte, N. C.  
 Hackensack, N. J.  
 Rutherford College, N. C.  
 Dunn, N. C.  
 Durham, N. C.  
 Shelby, N. C.

\* Requirements for graduation completed in Summer School, 1937.

- Price, Robert M.  
 Purnell, Oliver James, Jr.  
 Quick, Leon Wright  
 Rebman, Andrew Frederick  
 Riley, Joseph W.  
 Ris, Howard Clinton  
 Ritter, Richard W. M.  
 Roesti, Max, Jr.  
 Rohland, John H.  
 \*Rohrbaugh, Austin B.  
 Rouse, Arthur B., Jr.  
 Rouzer, Elmer E.  
 Russell, Horace, Jr.  
 Russo, Roland  
 Ryon, Thomas Shipley  
 Sackman, Martin Douglas  
 Sager, Thomas Curtis  
 Scanlon, Robert Laurence  
 Schaefer, Walter Augustus, II  
 Schworer, Donald V.  
 Sheehan, Donald Henry  
 Shepherd, Ashby Lee  
 Shilliday, James Glasser  
 Shilling, Edward William  
 Shockloss, William John  
 Sholes, Dillard McCary  
 Simpson, Ernest Albert, Jr.  
 Smith, Edward  
 Smith, Kenneth Murphy  
 Snyder, George Peter, Jr.  
 Somerville, William Bierman  
 Spurgeon, Allen Cooper  
 Spurgeon, John Lackey  
 \*Steenrod, R. L.  
 Stephens, Robert Harvey  
 Stetler, Keith Hays  
 Stocks, William Leonard, Jr.  
 Stone, Merle Kay  
 Stone, Russell DeLeon  
 Sundholm, John Edward  
 Surbaugh, George Harvey  
 Sutherland, Archie Reid  
 Sykes, Harold Arthur, Jr.  
 Taylor, Curtis Sheldon  
 Taylor, Francis S.  
 Thomas, Charles A., Jr.  
 Thompson, Walter Rowe  
 \*Thornhill, George T.  
 Thurston, Harold Bushman  
 \*Timberlake, Lloyd F.  
 Timberlake, Thomas Howard  
 Turley, E. William  
 Turner, Charles Fletcher  
 \*Turpit, W. James  
 Ulrich, Harvey Edward, Jr.  
 Ultes, Carl, Jr.  
 Van Lill, Stephen J., III  
 von Glahn, Harold Diederich  
 Scranton, Pa.  
 Rockville, Conn.  
 Watertown, N. Y.  
 Courtland, Ala.  
 Collingdale, Pa.  
 Freeport, N. Y.  
 Vineland, N. J.  
 Boston, Mass.  
 Jesso, Pa.  
 Chevy Chase, Md.  
 Lexington, Ky.  
 Hagerstown, Md.  
 Washington, D. C.  
 Montclair, N. J.  
 Washington, D. C.  
 Garden City, N. Y.  
 Hagerstown, Md.  
 Brooklyn, N. Y.  
 Nutley, N. J.  
 Brooklyn, N. Y.  
 Montclair, N. J.  
 Bristol, Md.  
 Pittsburgh, Pa.  
 Dover, Del.  
 Wilkes-Barre, Pa.  
 Durham, N. C.  
 Hightstown, N. J.  
 Dunn, N. C.  
 Barnesville, O.  
 Ridgefield Park, N. J.  
 Cumberland, Md.  
 Uniontown, Pa.  
 Uniontown, Pa.  
 Liberty, N. Y.  
 Wilmington, Del.  
 York, Pa.  
 Scranton, Pa.  
 Durham, N. C.  
 Wilmington, N. C.  
 Brooklyn, N. Y.  
 Anderson, Ind.  
 Sparta, Ill.  
 Queens Village, N. Y.  
 Addison, N. Y.  
 Durham, N. C.  
 Philadelphia, Pa.  
 Midland, N. C.  
 Bluefield, W. Va.  
 Martinsburg, W. Va.  
 Columbia, S. C.  
 Columbia, S. C.  
 Parkersburg, W. Va.  
 Birmingham, Ala.  
 Hastings, Neb.  
 Haddonfield, N. J.  
 Springfield, O.  
 Baltimore, Md.  
 Brooklyn, N. Y.

\* Requirements for graduation completed in Summer School, 1937.

Wade, Charles Byrd, Jr.	Morehead City, N. C.
Wade, Luther Irwin, Jr.	Elkin, N. C.
Walker, Remson Wesley	Tarrytown, N. Y.
*Washburn, John	Bostic, N. C.
Webster, Thomas Preston, Jr.	Tappahannock, Va.
Weinstein, Maurice Aaron	Salem, N. J.
Wells, William Waterman	Elmira, N. Y.
*Wenrich, Charles D.	Washington, D. C.
West, James Kilgo	Asheville, N. C.
Wherrett, Norman Lewis	Wilmington, Del.
White, Donald Hamilton	Brooklyn, N. Y.
*Widmark, Walter	Verona, N. J.
Wiley, Arthur Leslie, Jr.	Norfolk, Va.
*Wilkinson, Herbert J., Jr.	Jupiter, Fla.
Williams, Berry C.	Fayetteville, Tenn.
Williams, Bill J.	Fayetteville, Tenn.
Williams, Manley C.	Rahway, N. J.
Wilson, Earl Way	Durham, N. C.
Wilson, Robert C.	Bennington, Vt.
*Wood, Robert Cary	Lewisburg, W. Va.
Worthington, George Sanford	Washington, D. C.
Wright, William Beverly, Jr.	Raleigh, N. C.
Yoder, J. Russell, Jr.	Esterly, Pa.
Young, Hubert Pride	Scarsdale, N. Y.

## SPECIAL STUDENTS

Baker, William Russell	Bronxville, N. Y.
Dalton, Raymond A.	Durham, N. C.
Fogleman, William Harry	Durham, N. C.
Fukuhara, Nobukazu	Tokyo, Japan
Hoyle, Jonathan Vernon	Durham, N. C.
Klavan, Morris	Durham, N. C.
Mullinax, Buzzie Lee	Durham, N. C.
Persons, Walter Scott	Durham, N. C.
Stephenson, Arthur L. G., Jr.	Durham, N. C.
Stone, William Thomas	Durham, N. C.
Wetmore, Thomas H.	Woodleaf, N. C.
Wilkinson, Albert A.	Durham, N. C.

## THE WOMAN'S COLLEGE

## FRESHMAN CLASS

Abernethy, Mary Lura	Newton, N. C.
Adams, Mary Jane	Richmond, Va.
Aleinikoff, Mimi	Brooklyn, N. Y.
Alexander, Dorothy Ruth	Atlanta, Ga.
Alexander, Katherine Tatham	Glendale, Cal.
Ashley, Jane	Ellenton, S. C.
Aylward, Dorothy Adelaide	Daytona Beach, Fla.
Badgley, Audrey Dobbs	Millburn, N. J.
Baer, Marion Eleanor	Bedford Hills, N. Y.
Bagley, Mary Lee	Rochester, N. Y.
Bailey, Jean Elizabeth	Raleigh, N. C.
Bailey, Josephine Gardner	Thomasville, Ga.
Baker, Babbette Marie	Toledo, O.
Ballard, Margaret Elizabeth	Willis Wharf, Va.
Barnes, Margaret Elizabeth	Philadelphia, Pa.

\* Requirements for graduation completed in Summer School, 1937.

- Becker, Dora Elizabeth  
 Berger, Ruth  
 Bezenberger, Margaret Louise  
 Binder, Kathryn Louise  
 Blackmore, Patricia  
 Blessman, Dorothy Irene  
 Bonnell, Margaret Creola  
 Boughton, Jean  
 Bouton, Jeanne Addie  
 Brandt, Claire Pauline  
 Braynard, Margaret Isabel  
 Brundage, Elizabeth Travers  
 Bryan, Margaret Hooper  
 Buckle, Martha Louise  
 Bunker, Adele Enloe  
 Burks, June Gentry  
 Burroughs, Betty Virginia  
 Buschow, Mary Ellen  
 Caldrony, Eleanor Irene  
 Campbell, Edna Preising  
 Campbell, Virginia Alice  
 Cann, Joy  
 Case, Eleanor Carlotta  
 Chamberlain, K. Hope  
 Chase, Sarah Elizabeth  
 Clark, Irene Hawkins  
 Clark, Patricia Ann  
 Clinkscales, Mary Celeste  
 Coburn, Geraldine  
 Coburn, Helen Kerr  
 Cole, Miriam  
 Conger, Dorothea Parsons  
 Conners, Carol Ann  
 Cordes, Shirley Louise  
 Corey, Jean  
 Cornish, Susan Gladys  
 Courtney, Margaret Derley  
 Courtney, Mary Ivey  
 Cousins, Mary Ernestine  
 Cozart, Anne Fleming  
 Craig, Nancy Jane  
 Crawford, Frances Lorraine  
 Crawford, Mary Elizabeth  
 Creider, Elizabeth May  
 Crossan, Marian Springer  
 Crum, Frances Foreman  
 Crump, Charlotte Amelia  
 Curry, Elise Duncan  
 Custis, Marjory Elaine  
 Davis, Marjorie Elizabeth  
 DeGarmo, Audrey  
 Denaple, Nancy Jeane  
 Denney, Sherleen Marie  
 Dodrill, Mabel Geraldine  
 Driscoll, Helen Barbara  
 Edwards, Rufe Dorsey  
 Eisen, Edythe Lilyan  
 Entrekin, Virginia Bullock  
 Epes, Marjorie Louise  
 Washington, D. C.  
 Brooklyn, N. Y.  
 Shaker Heights, O.  
 Leonia, N. J.  
 Birmingham, Mich.  
 Akron, O.  
 Jamaica, N. Y.  
 East Orange, N. J.  
 Miami, Fla.  
 Norfolk, Va.  
 Glen Cove, N. Y.  
 Upland, Pa.  
 Queenstown, Md.  
 Binghamton, N. Y.  
 New York, N. Y.  
 Charlotte, N. C.  
 Ashtabula, O.  
 Mena, Ark.  
 Ridgefield Park, N. J.  
 Drexel Hill, Pa.  
 Havana, Cuba  
 Greensboro, N. C.  
 Fort Myers, Fla.  
 Syracuse, N. Y.  
 Miami Beach, Fla.  
 Washington, N. C.  
 Miami Beach, Fla.  
 Miami, Fla.  
 Raleigh, N. C.  
 Washington, D. C.  
 Middletown, O.  
 Staunton, Va.  
 Shaker Heights, O.  
 Johnstown, Pa.  
 Hollywood, Fla.  
 Gillette, N. J.  
 Winston-Salem, N. C.  
 Charlotte, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Crafton, Pa.  
 Charlotte, N. C.  
 Glen Ellyn, Ill.  
 Scranton, Pa.  
 Marshallton, Del.  
 Durham, N. C.  
 Wallingford, Conn.  
 Bethesda, Md.  
 Washington, D. C.  
 Durham, N. C.  
 Lakewood, O.  
 Manhasset, L. I., N. Y.  
 New Rochelle, N. Y.  
 Webster Springs, W. Va.  
 Upper Montclair, N. J.  
 Jacksonville, Fla.  
 Brooklyn, N. Y.  
 Belleville, N. J.  
 Kenmore, N. Y.

- Epperson, Joan Marie  
Evans, Mary Ann  
Fagan, Barbara Campbell  
Ferguson, Pollyanne  
Fleet, Lillian  
Flippen, Gertrude Lee  
Flowers, Flewellyn deGraffenreid  
Forlines, Martha Lane  
Forsythe, Rosemary  
Free, Sally Grace  
Fuller, Ardith Dodd  
Gantt, Kate Claywell  
Gardiner, Fredrica Elizabeth  
Gary, Ethel Almira  
Gillespie, Alice Irene  
Gilman, Dorothy Jean  
Goldsmith, Shirley Sylvia  
Gooch, Sara Bruce  
Goodwin, Noma Lee  
Gottlieb, Helen Myra  
Grace, Julia Ann  
Gray, Priscilla  
Green, Betty  
Gregory, Anna Elizabeth  
Griffin, Kathleen Holder  
Griffith, Mildred Wellborn  
Griffiths, Mary Elizabeth  
Grunewald, Christine Dora  
Gwyn, Anne Russell  
Hagemann, Martha Jane  
Hale, Mary Elizabeth  
Hall, Alice Virginia  
Hall, Mary Louise  
Hall, Virginia Ann  
Hammond, Lois Leslie  
Hanby, Mildred Scott  
Hansen, Shirley Tweed  
Harmon, Emma Norris  
Harper, Etha Josephine  
Harris, Kate Lee  
Harward, Lillian Mangum  
Harwood, Alice  
Hatheway, Elizabeth Cordelia  
Hayes, Martha Anne  
Haynes, Hazel Sterritt  
Hersey, Ann Randolph  
Hess, Ruth Alberta  
Higgins, Helen Dorothea  
Hill, Lillian Lee  
Houston, Jane Hunt  
Howorth, Loretta Alice  
Huckle, Elizabeth Gillis  
Hughes, Caroline Irene  
Hull, Edyth Maud  
Hutchinson, Martha  
Izlar, Camille Willingham  
Jacobi, Wilma Jane  
Johnston, Bertha Emmalee  
Jones, Gwendolyn Earle  
Durham, N. C.  
Greensboro, N. C.  
Garden City, N. Y.  
Loveland, Colo.  
Winter Haven, Fla.  
Richmond, Va.  
Thomasville, Ga.  
Durham, N. C.  
Park Ridge, Ill.  
Shaker Heights, O.  
New York, N. Y.  
Durham, N. C.  
Jacksonville, Fla.  
Stafford Springs, Conn.  
Hartsville, S. C.  
Allentown, Pa.  
Hopewell, Va.  
Henderson, N. C.  
Durham, N. C.  
Paulsboro, N. J.  
Easton, Md.  
Oyster Bay, N. Y.  
Coral Gables, Fla.  
Durham, N. C.  
Atlanta, Ga.  
Lebanon, Va.  
Great Neck, L. I., N. Y.  
Washington, D. C.  
Reidsville, N. C.  
Chillicothe, O.  
Baltimore, Md.  
Erie, Pa.  
Raleigh, N. C.  
Great Neck, L. I., N. Y.  
Concord, N. H.  
Wilmington, Del.  
Hendersonville, N. C.  
Leland, N. C.  
Hartsville, Tenn.  
Durham, N. C.  
Raleigh, N. C.  
Park Ridge, Ill.  
West Hartford, Conn.  
Durham, N. C.  
Durham, N. C.  
Cleveland, O.  
Fairmont, W. Va.  
Taunton, Mass.  
Bound Brook, N. J.  
Warren, Pa.  
Wilkes-Barre, Pa.  
Rock Hill, S. C.  
Jacksonville, Fla.  
Cleveland Heights, O.  
Pensacola, Fla.  
East Aurora, N. Y.  
Washington, D. C.  
Jacksonville, Fla.  
Charlotte, N. C.



- Kennedy, Virginia Elizabeth  
 Kenner, Frances Annette  
 King, Jessie Elizabeth  
 King, Lucile Curtis  
 Kingsbery, Jean  
 Kirby, Nan Eff  
 Kishpaugh, Marjorie Byrd  
 Knight, Frances Bernice  
 Knight, Margaret Ann  
 Krummel, Marjorie Anne  
 Kueffner, Rose Goldsmith  
 Kunkle, Mary Jane  
 Lambdin, Jean Carback  
 LaMont, Marjorie  
 Lawrence, Helen Woodruff  
 Lawrence, Jacquelyn Raymond  
 Leatherwood, Elizabeth May  
 Lee, Elsie Lois  
 Lentz, Jacqueline  
 Leonard, May Vestal  
 Lewis, Polly Anne  
 Lewis, Winona Naomi  
 Link, Henry Etta  
 Linton, Jeanne Phyllis  
 Loughlin, Sylvia Catherine  
 Lynch, Katherine Harless  
 Lyon, Estelle Felts  
 McCabe, Mary Keaveny  
 McCanless, Sarah Napoleon  
 McCann, Adriana  
 McKenzie, Eleanor  
 MacMillan, Anne Fonvielle  
 MacMillan, Grace Louise  
 MacNutt, Jean Mary  
 Mack, Elizabeth Amanda  
 Maden, Ruby Kathryn  
 Marks, Marcella Marilyn  
 Mason, Margaret Varina  
 Mayhew, Nellie Adelaide  
 Mitchell, Carnelia  
 Morehead, Mildred Ada  
 Morrison, Beatrice Mary  
 Moss, Laura Neville  
 Murray, Elizabeth Lee  
 Noling, Flora Louise  
 Norwood, Marion Louise  
 Oak, Dorothy Marie  
 Oehm, Jean Florence  
 Omar, Nancy Jean  
 Osborne, Elizabeth Ann  
 Ottinger, Addie  
 Owen, Emily Hillyer  
 Owens, Jean Lusyl  
 Padmore, Phyllis Joy  
 Parker, Mary Allerton  
 Parker, Sarah Constance  
 Payne, Clara Josephine  
 Pentz, Helen Eloise  
 Perkins, Mildred Harriet  
 Durham, N. C.  
 New Rochelle, N. Y.  
 St. Pauls, N. C.  
 Grosse Pointe Farms, Mich.  
 Pensacola, Fla.  
 Ft. Pierce, Fla.  
 Hershey, Pa.  
 Belton, S. C.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Allentown, Pa.  
 St. Petersburg, Fla.  
 Canton, O.  
 Sussex, N. J.  
 Philadelphia, Pa.  
 Bryson City, N. C.  
 Durham, N. C.  
 Ellerbe, N. C.  
 Lexington, N. C.  
 Kingsport, Tenn.  
 Alachua, Fla.  
 Lexington, N. C.  
 Philadelphia, Pa.  
 Henderson, N. C.  
 Evanston, Ill.  
 Durham, N. C.  
 Wilmington, Del.  
 South Boston, Va.  
 Petersburg, Va.  
 Gibson, N. C.  
 Goldsboro, N. C.  
 Durham, N. C.  
 Ridgefield Park, N. J.  
 Durham, N. C.  
 Delaware City, Del.  
 Roanoke Rapids, N. C.  
 Durham, N. C.  
 Minneapolis, Minn.  
 Irvine, Ky.  
 Pelham Manor, N. Y.  
 Pittsburgh, Pa.  
 Union City, Tenn.  
 Shelbyville, Del.  
 South Orange, N. J.  
 Durham, N. C.  
 Bound Brook, N. J.  
 Longmeadow, Mass.  
 Bluefield, W. Va.  
 Jacksonville, Fla.  
 Bridgeton, N. J.  
 Anniston, Ala.  
 Petersburg, Va.  
 West Chester, Pa.  
 Chevy Chase, Md.  
 Henderson, N. C.  
 Lenoir, N. C.  
 Winchester, Mass.  
 Oakmont, Pa.

Pittard, Lucille Virginia  
Porterfield, Bettilu  
Pressing, Frances Irene  
Prox, Dorothy Cecile  
Quillin, Evelyn May  
Rateau, Carolyn Ann  
Reeves, Anne Heron  
Reiffin, Shirley  
Richards, Anne  
Richmond, Cornelia Crawford  
Robinson, Elizabeth  
Rodenbough, Kathryn Louise  
Rogers, Rae Elizabeth  
Rorabaugh, Helen Mary  
Roseman, Mary Jane  
Rudolph, Louise Nadine  
Russell, Margaret Megan  
Saville, Dorothy Gertrude  
Scarlett, Dora Page  
Schofield, Victoria Jane  
Schrup, Ellen Lester  
Seeley, Carolyn Ada  
Sellars, Josephine Virginia  
Shaw, Minnie Lee  
Shelton, Ada Josephine  
Sherman, Mary Irwin  
Sherrill, Ellen Lewis  
Shields, Janet Louise  
Shivers, Mary Ann  
Shoecraft, Harriet  
Shryock, Betty Hall  
Simpson, Margaret Lynch  
Sink, Dorothy Estelle  
Slingsby, Helen Audrey  
Small, Carolyn Lee  
Smith, Elizabeth Marie  
Smith, Shirley Louise  
Snipes, Elizabeth Blanks  
Snyder, Eugenia Josephine  
Sopp, Barbara Perine  
Southgate, Eleanor Fuller  
Southwick, Bertha Eunice  
Spruill, Margaret  
Stark, Dorothy Louise  
Starnes, Margaret Evelyn  
Stiles, Caroline Brown  
Stockdale, Ruth Mary  
Stubbs, Sara Lily  
Sweet, Virginia Lorraine  
Tabor, Margarette Isabelle  
Terry, Alice  
Thomas, Frances Cherry  
Thompson, Kitty Lou  
Tritle, Doris Hotchkiss  
Umstead, Carolyn Manning  
Van Hagan, Louise Humphrey  
Wagner, Carol June  
Wagner, Laura Elinor  
Wagner, Margaret Elizabeth

Clarksville, Va.  
Canton, O.  
Norwalk, O.  
Terre Haute, Ind.  
Kingsport, Tenn.  
Ridgewood, N. J.  
Washington, D. C.  
West Paterson, N. J.  
West Hartford, Conn.  
Ewing, Va.  
Fort Lauderdale, Fla.  
Easton, Pa.  
Washington, D. C.  
Philadelphia, Pa.  
Philadelphia, Pa.  
New York, N. Y.  
Asheville, N. C.  
Wilmington, Del.  
Durham, N. C.  
Akron, O.  
Mt. Plymouth, Fla.  
Durham, N. C.  
Mebane, N. C.  
Durham, N. C.  
Mount Airy, N. C.  
Goldsboro, N. C.  
Concord, N. C.  
Montclair, N. J.  
Woodbury, N. J.  
Ann Arbor, Mich.  
Winchester, Va.  
Winston-Salem, N. C.  
Winston-Salem, N. C.  
Deep River, Conn.  
Elizabeth City, N. C.  
South River, N. J.  
Arlington, Va.  
Durham, N. C.  
Patchague, N. Y.  
Red Bank, N. J.  
Durham, N. C.  
Towson, Md.  
Lexington, N. C.  
Rockville Center, N. Y.  
Morganton, N. C.  
Washington, D. C.  
Pittsburgh, Pa.  
Hamlet, N. C.  
Schenectady, N. Y.  
Boissevain, Va.  
Scituate, Mass.  
Durham, N. C.  
Marion, S. C.  
Erie, Pa.  
Durham, N. C.  
Buffalo, N. Y.  
Belleville, Ill.  
Jamaica, N. Y.  
Flushing, L. I., N. Y.

Walker, Mary Cicely  
 Wall, Martha Evelyn  
 Wallin, Geraldine Tinsley  
 Walter, Louise Chillson  
 Walters, Helen Julia  
 Ware, Betty Lee  
 Warner, Eleanor Taylor  
 Weidmann, Kathryn Olive  
 Weston, Sylvia  
 Weyman, Jean Marie  
 Whyte, Mary Robertson  
 Wiggins, Carol Leigh  
 Wilkinson, Dorothy Watkins  
 Willis, Helen Elizabeth  
 Willman, Marian Elizabeth  
 Windham, Carolyn Patricia  
 Wire, Margaret Jane  
 Wolcott, Dorothy Davies  
 Wood, Dorothy May  
 Wood, Rosemary  
 Woodcock, Athalinda Adella  
 Wray, Virginia Proffitt  
 Young, Martha Anne

Tampa, Fla.  
 Toledo, O.  
 Wilmington, Del.  
 Philadelphia, Pa.  
 Mount Holly, N. J.  
 Asheville, N. C.  
 Berwyn, Pa.  
 Belleville, Ill.  
 Hopewell, Va.  
 Middletown, O.  
 Pittsburgh, Pa.  
 Oxford, N. C.  
 Carson, Va.  
 Farmville, N. C.  
 Belleville, Ill.  
 Gainesville, Fla.  
 Mount Holly, N. J.  
 Riverton, N. J.  
 Yonkers, N. Y.  
 Roanoke, Va.  
 Morristown, N. J.  
 Norton, Va.  
 Durham, N. C.

#### SOPHOMORE CLASS

Acer, Virginia Katharine  
 Andrews, Sarah McLaurin  
 Apgar, Dorothy Winfree  
 Applewhite, Elizabeth Cheatham  
 Armstrong, Helen Hamilton  
 Asbury, Kathleen Mary  
 Auser, Ruth Dorothy  
 Babcock, Farrar Jeanne  
 Bail, Jane  
 Bailey, Dorothy Cutler  
 Barnes, Julia Barbara  
 Bennett, Mary Agnes  
 Benson, Mary Idelia  
 Blakeney, Catharine Carlos  
 Blount, Maryanne  
 Boger, Freda Dotger  
 Bolick, Mamie Evelyn  
 Borland, Frances Mason  
 Bowen, Elizabeth Jane  
 Boyd, Annajane  
 Brewer, Rosanna Jane  
 Brown, Jean Louise  
 Brown, Nancy Gordon  
 Byrne, Martha Jewell  
 Callaway, Charlotte Jane  
 Campbell, Phyllis Jane  
 Catchpole, Erminie  
 Chambers, Wave Maxine  
 Church, Elizabeth Taylor  
 Clark, Mary Ellen  
 Clements, Lillie Duke  
 Cockrell, Jean  
 Collins, Jo

Kenmore, N. Y.  
 Durham, N. C.  
 Charleston, W. Va.  
 Halifax, N. C.  
 Macon, Ga.  
 Charlotte, N. C.  
 Mountain Lakes, N. J.  
 Oklahoma City, Okla.  
 Fort Myers, Fla.  
 Summit, N. J.  
 Lillington, N. C.  
 Babson Park, Fla.  
 Winston-Salem, N. C.  
 Harrisburg, Pa.  
 Pensacola, Fla.  
 Philadelphia, Pa.  
 Conover, N. C.  
 Durham, N. C.  
 Buffalo, N. Y.  
 Germantown, Pa.  
 Shaker Heights, O.  
 Charlotte, N. C.  
 Amesbury, Mass.  
 Pottsville, Pa.  
 Altoona, Pa.  
 Chapel Hill, N. C.  
 North Rose, N. Y.  
 Okmulgee, Okla.  
 Meriden, Conn.  
 Salisbury, N. C.  
 Durham, N. C.  
 Dallas, Texas  
 Coral Gables, Fla.

Colsh, Doris Hadley  
Conrad, Elizabeth  
Cooley, Lois Randolph  
Copsey, Betty Jean  
Cox, Florence Steadman  
Dalton, Suzanne  
Dameron, Isa Sills  
Daugherty, Eloise Maxine  
Davis, Alice Gwyn  
Davis, Eleanor Beauford  
Devendorf, Helen Carver  
Dodge, Mary Stacy  
Dorn, Dorothy Edith  
Douglass, Betty Randle  
Evans, Agnes  
Evans, Alona Elizabeth  
Eyerly, Susanne Maria  
Gaines, Barbara Jeanne  
Gambill, Helen Elizabeth  
Gambke, Dolores Barbara  
Gee, Claribel Nance  
Gerow, Jeanne Elizabeth  
Gibson, Frances  
Glass, Ann King  
Glenn, Martha Anne  
Glenn, Peggy Elizabeth  
Goddard, Cornelia Margaret  
Goddard, Frances Mae  
Gracely, Louise  
Haas, Janet Elaine  
Hamre, Grace Cole  
Hance, Dorothy Fisher  
Harper, Marie Norene  
Harrington, Amy Riser  
Hartman, Doris Katherine  
Hedrick, Willa Frances  
Henry, Barbara Anne  
Hodges, Virginia Nelson  
Hopper, Myrtle Eleanor  
Hopwood, Margaret Curtis  
Huckabee, Marjorie Jane  
Hummel, Karla Leiselotte  
Jarvis, Ora Alpha  
Jeffcoat, Helen Jeannette  
Johnson, Marion Duke  
Jones, Maggie Sarah  
Joyner, Edna McDonald  
Kelley, Maude Margaret  
King, Ann Lamb  
King, Dorothy Rae  
Kingsbury, Anne  
Knight, Helen Louise  
Koch, Gretchen Arline  
Kramer, Betty Ellen  
Laird, Martha  
Lambdin, Dorothy Ellen  
Lane, Bernice Elizabeth  
Lassiter, Mary Dearborn  
Laufer, Beatrice May

Maplewood, N. J.  
Washington, D. C.  
Washington, D. C.  
Summit, N. J.  
Mount Olive, N. C.  
Toledo, O.  
Goldsboro, N. C.  
Cumberland, Md.  
Shelby, N. C.  
Melbourne, Fla.  
Asheville, N. C.  
Chester, Va.  
Springfield, Mass.  
Stanton, Tenn.  
Arlington, Va.  
Durham, N. C.  
Hagerstown, Md.  
Lakewood, O.  
Chattanooga, Tenn.  
Englewood, N. J.  
Greenwood, S. C.  
Liberty, N. Y.  
Concord, N. C.  
Paris, Ky.  
Chicago, Ill.  
Kew Gardens, N. Y.  
Stratford, Conn.  
Upper Nyack, N. Y.  
Marion, O.  
Toledo, O.  
Brooklyn, N. Y.  
Easton, Pa.  
Havana, Cuba  
Monroe, N. C.  
Fort Monroe, Va.  
Salisbury, N. C.  
Atlanta, Ga.  
Charleston, W. Va.  
Purchase, N. Y.  
Minneapolis, Minn.  
Macon, Ga.  
Bernardsville, N. J.  
Charleston, W. Va.  
Opp, Ala.  
Durham, N. C.  
Townsend, Va.  
Manatee, Fla.  
Westfield, N. J.  
Charleston, W. Va.  
Marion, O.  
Brooklyn, N. Y.  
Durham, N. C.  
Pittsburgh, Pa.  
Great Neck, L. I., N. Y.  
Jonesboro, Ark.  
St. Petersburg, Fla.  
Durham, N. C.  
Jackson Heights, N. Y.  
Oil City, Pa.

Lavington, Adele Frances  
 Lee, Anna deFranse  
 Lee, Yorke Houston  
 Livermore, Anne Louise  
 Livingston, Ruth Bertha  
 Long, Dorothy Daniel  
 Long, Winifred  
 Lunsford, Noni Jordan  
 Lutz, Marjorie Elizabeth  
 McCreery, Marjorie Graham  
 MacDorman, Miriam Ara  
 McFadyen, Betty Cannon  
 McKinsey, Sarah Carol  
 Mailler, Barbara Russell  
 Manville, Ruth Virginia  
 Mapes, Elizabeth Blake  
 Mason, Virginia Baird  
 Matthews, Doris Adelaide  
 May, Stella Josephine  
 Medley, Doris  
 Merkel, Jean

Metz, Jean Lois  
 Monaghan, Margaret Elizabeth  
 Montague, Margaret Emily  
 Morel, Eugenia Evelyn  
 Mowry, Betty Jane  
 Murphy, Jeanne Dorothea  
 Neel, Dorothy  
 Nachamson, Eva  
 Nelson, Frances Mae  
 Neushul, Maxine Marie  
 Nevius, Eleanor  
 Newlin, Charlotte Case  
 Newlin, Lorraine Case  
 O'Brien, Catherine Anne  
 Oliver, Ann  
 Ondek, Olga Othelia  
 Osterhoudt, Marjorie Altanah  
 Paradies, Evelyn Gloria  
 Pardo, Leonor Elizabeth  
 Parrott, Leone Hines  
 Pearce, Mary Angie  
 Perkins, Martha Shannon  
 Pierce, Abigail  
 Pierce, Martha Elizabeth  
 Plyler, Grace  
 Rankin, Minnie McCorkle  
 Raper, Nancy Louise  
 Raup, Peggy Anne  
 Rauschenberg, Ann Pope  
 Ricks, Mary Lila  
 Rogers, Evelyn Still  
 Rohrer, Helen Louise  
 Ryan, Laurette Alice  
 Sackett, Jeanne Connable  
 Schiffer, Eileen Anna  
 Schomaker, Dorothy Anna  
 Scott, Sara Elizabeth

Brooklyn, N. Y.  
 Ft. Bragg, N. C.  
 Burlington, N. C.  
 Woodbury, N. J.  
 Overbrook Hills, Pa.  
 Newton, N. C.  
 Catawba, N. C.  
 Durham, N. C.  
 Shelby, N. C.  
 Pittsburgh, Pa.  
 Selma, O.  
 Washington, D. C.  
 Danville, Va.  
 Jersey City, N. J.  
 Tryon, N. C.  
 Grand Rapids, Mich.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Bethesda, Md.  
 Revelstoke, British Columbia, Canada  
 Jersey City, N. J.  
 Plainfield, N. J.  
 Durham, N. C.  
 South Orange, N. J.  
 Largo, Fla.  
 Upper Darby, Pa.  
 Pittsburgh, Pa.  
 Durham, N. C.  
 Brooklyn, N. Y.  
 Winnetka, Ill.  
 Monmouth Junction, N. J.  
 Daytona Beach, Fla.  
 Daytona Beach, Fla.  
 Wilmington, N. C.  
 Westfield, N. J.  
 Pittsburgh, Pa.  
 Kingston, N. Y.  
 Atlanta, Ga.  
 Havana, Cuba  
 Kinston, N. C.  
 Durham, N. C.  
 Louisville, Ky.  
 Oklahoma City, Okla.  
 Indiana, Pa.  
 Durham, N. C.  
 Concord, N. C.  
 Lexington, N. C.  
 Richmond, Va.  
 Atlanta, Ga.  
 Whitakers, N. C.  
 Richmond, Va.  
 Hagerstown, Md.  
 Rumson, N. J.  
 Shaker Heights, O.  
 Rye, N. Y.  
 Pearl River, N. Y.  
 Wellesley Hills, Mass.

Scudder, Harriet Ellen  
 Seawell, Anne Lee  
 Secrest, Lillian Asbury  
 Showalter, Florence Elizabeth  
 Siceloff, Helen Marie  
 Simmons, Jessie Steele  
 Smith, Marjorie Frances  
 Smith, Muriel Barrington  
 Smitheal, Burney  
 Sommers, Suzanne  
 Spence, Mary Virginia  
 Sprinkle, Betty Alliene  
 Sprau, Sara Ellen  
 Stamets, Grace  
 Standard, Arlene Elizabeth  
 Stannert, Betsy Ann Jobyna  
 Stites, Jessie Parkes  
 Strong, Mary Rankin  
 Sundholm, Alma Edwina  
 Sutton, Thressa Dale  
 Sykes, Anne  
 Tabakin, Florence  
 Thomas, Hope Arishia  
 Thompson, Diana  
 Tilley, Estelle Miriam  
 Toppin, Bertha Emma  
 Underwood, Margaret Payne  
 Van Sciver, Evelyn  
 Ward, Margaret  
 Ware, Kathryn Byrne  
 Warner, Polly Russell  
 Weakley, Jules  
 Weaver, Betty Gwyn  
 Webb, Nancy Boyer  
 Weintz, Edith Mary  
 Wertz, Doris Elise  
 White, Mildred Shreve  
 White, Sallie Falkener  
 Williams, Margaret Walker  
 Womble, Edith  
 Worsham, Margaret Louise  
 Yarbrough, Mary Jennelle  
 Yon, Betty  
 Young, Jessamine Wallace

Hyannis, Mass.  
 Winder, Ga.  
 Monroe, N. C.  
 Auburn, Ala.  
 High Point, N. C.  
 Rockingham, N. C.  
 Waquoit, Mass.  
 La Grange, Ga.  
 Dyersburg, Tenn.  
 Maplewood, N. J.  
 Raleigh, N. C.  
 Indiana, Pa.  
 Louisville, Ky.  
 Avalon, Pa.  
 Brooklyn, N. Y.  
 Oaklyn, N. J.  
 Louisville, Ky.  
 New Rochelle, N. Y.  
 Brooklyn, N. Y.  
 Penn's Grove, N. J.  
 Queens Village, N. Y.  
 Norfolk, Va.  
 Biglerville, Pa.  
 Reidsville, N. C.  
 Raleigh, N. C.  
 Atlantic City, N. J.  
 Durham, N. C.  
 Camden, N. J.  
 Whitestone, N. Y.  
 Falls Church, Va.  
 Great Neck, L. I., N. Y.  
 Shelbyville, Ky.  
 Archdale, N. C.  
 Greenwich, Conn.  
 Austinville, Va.  
 Hagerstown, Md.  
 East Orange, N. J.  
 New Rochelle, N. Y.  
 Max Meadows, Va.  
 Winston-Salem, N. C.  
 Chattanooga, Tenn.  
 Atlanta, Ga.  
 Atlanta, Ga.  
 Ashland, Ky.

## JUNIOR CLASS

Abernethy, Wray Beatrice  
 Adams, Gwendolyn Hooge  
 Aitken, Lois Ethel  
 Alden, Priscilla  
 Allin, Elizabeth Frances  
 Alphin, Ann Marie  
 Anderson, Frances Louise  
 Arthur, Sara Michaux  
 Bagwell, Jeannette Rankin  
 Bariscillo, Virginia Ann  
 Barrett, Mary Dean  
 Barrow, Mary Rebecca  
 Bell, Bettina Lee

Durham, N. C.  
 Martinsburg, W. Va.  
 South Orange, N. J.  
 New York, N. Y.  
 Ft. Bragg, N. C.  
 El Dorado, Ark.  
 Danville, Va.  
 Huntington, W. Va.  
 Raleigh, N. C.  
 Asbury Park, N. J.  
 Stamford, Conn.  
 Zebulon, N. C.  
 Fairmont, W. Va.



Bell, Mary Clarke  
 Belvin, Eleanor Prudence  
 Biddle, Mary Duke  
 Bishop, Martha Coleman  
 Bobbitt, Mildred Heavlin  
 Bothwell, Ludie Mae  
 Boyd, Olive Margaret  
 Brandon, Minnie Elliott  
 Braznell, Mary Jane  
 Breedlove, Susan Caroline  
 Briggs, Frances Markham  
 Brooks, Frances Ellis  
 Brown, Betty Jean  
 Brown, Kathleen Maidee  
 Brugh, Louise Elizabeth  
 Burgess, Lucille  
 Butt, Dorothy Eloise  
 Butts, Elsa-Louise  
 Caldwell, Elizabeth Haynes  
 Campbell, Martha  
 Carlen, Margaret Alice  
 Carpenter, Ruth Moore  
 Clay, Mary Drew  
 Cockrell, Margaret Helen  
 Cooley, Erma Leone  
 Costigan, Carroll  
 Creery, Dorothy Helen  
 Crowder, Margaret Macon  
 Culp, Evelyn  
 Curtis, Evelyn  
 Davidson, Ada Frances  
 Davis, Betsy Hale  
 Down, Martha Jane  
 Earle, Elizabeth Elsie  
 Edwards, Roberta Clyde  
 Elmiger, Marguerite  
 Emery, Elizabeth Stewart  
 Erion, Mary Elizabeth  
 Finger, Margaret Louise  
 Fleet, Gertrude  
 Fletcher, Grace Elizabeth  
 Fraser, Elizabeth  
 Fraser, Ethel Jean  
 Fraser, Louise Wright  
 Fuller, Elizabeth Carter  
 Fuller, Epsie  
 Gager, Rachel Clark  
 Garrard, Ruth Camille  
 Gibbons, Elizabeth Stott  
 Gibson, Lillian Mai  
 Gillin, Hazelle Delano  
 Globman, Claire  
 Goree, Mary Louise  
 Groves, Carol Falconer  
 Hardin, Hilliard Frances  
 Hatcher, Elizabeth  
 Hawkins, Jane Northcutt  
 Henry, Dorothy Kathleen  
 Horsting, Jane Ellen

Greensburg, Pa.  
 Durham, N. C.  
 Durham, N. C.  
 Sanford, Fla.  
 Durham, N. C.  
 Hickory, N. C.  
 Dover, N. J.  
 Blackstone, Va.  
 Miami Beach, Fla.  
 Durham, N. C.  
 Durham, N. C.  
 Warsaw, N. C.  
 Blanchester, O.  
 South Orange, N. J.  
 Montgomery, W. Va.  
 Summit, N. J.  
 Brooklyn, N. Y.  
 New Rochelle, N. Y.  
 Marion, N. C.  
 Bradenton, Fla.  
 Cookeville, Tenn.  
 Garden City, N. Y.  
 Macon, Ga.  
 Detroit, Mich.  
 Frenchtown, N. J.  
 Bloomington, Ill.  
 Drexel Hill, Pa.  
 Raleigh, N. C.  
 New London, N. C.  
 Hawthorne, N. J.  
 Augusta, Ga.  
 Baltimore, Md.  
 Pleasant Ridge, Mich.  
 Hermansville, Mich.  
 Durham, N. C.  
 Bayonne, N. J.  
 Sanford, Me.  
 Orchard Park, N. Y.  
 Maiden, N. C.  
 Winter Haven, Fla.  
 Durham, N. C.  
 Ft. Bragg, N. C.  
 Brooklyn, N. Y.  
 Ft. Bragg, N. C.  
 Arlington, Va.  
 Lumberton, N. C.  
 Granby, Conn.  
 Durham, N. C.  
 Wilson, N. C.  
 Elizabeth, N. J.  
 Bangor, Me.  
 Martinsville, Va.  
 Chattanooga, Tenn.  
 Washington, D. C.  
 Clover, S. C.  
 High Point, N. C.  
 Marietta, Ga.  
 Atlanta, Ga.  
 Wilmette, Ill.

Howell, Jean  
 Howell, Mary Catherine  
 Hyde, Lorraine Olive  
 Jefferson, Ann Marie  
 Jernigan, Nancy Garrett  
 John, Helene  
 Johnson, Kathryn Eloise  
 Johnston, Jean  
 Johnston, Joan  
 Jones, Margaret Adelia  
 Jones, Margaret Louise  
 Kelley, Jane  
 Kirk, Margaret Westmorland  
 Kitchen, Jane Crowell  
 Knight, Ann Seymour  
 Koehnlein, Betty  
 Laprade, Nancy Elizabeth  
 Leon, Virginia Naomi  
 Levitt, Helen Bernice  
 Lewis, Elizabeth Holmes  
 Linebarger, Margaret  
 Liverant, Freda Helen  
 Lutz, Ethel Elizabeth  
 MacClements, Mary Helen  
 McClenny, Marguerite Elizabeth  
 McConnell, Janet Elizabeth  
 Macdonald, Jeanne Frances  
 McGinnis, Madeline  
 MacLeod, Betsy Kennedy  
 Magill, Mary Jane  
 Margolis, Kathryn  
 Marks, Laura Geneva  
 Marshall, Betty Jane  
 Martin, Katherine Mary  
 Marx, Gloria Helen  
 Matheson, Emily Lucile  
 Maule, June  
 Mauser, Frances Fahler  
 Metzenthin, Kathleen Proctor  
 Milliette, Jeanne  
 Millner, Ione Elizabeth  
 Mitchell, Katharine  
 Mizell, Louise McDavid  
 Moreton, Jeannette Estelle  
 Oak, Eleanor  
 Ord, Jean Sanders  
 Osburn, Mary Kathryn  
 Park, Marion Yancey  
 Patrick, Margaret Patricia  
 Patterson, Anna Mildred  
 Pennell, Elizabeth Patricia  
 Perdue, Maxine Roberta  
 Peters, Margaret Haile  
 Pethick, Mary Grace  
 Phillips, Susan Latimore  
 Porritt, Dorothy Elizabeth  
 Porter, Anna Mae  
 Pridgen, Janis  
 Puckett, Nell Hinson

Atlanta, Ga.  
 Salt Lake City, Utah  
 Interlaken, N. J.  
 Fountain, N. C.  
 Ahoskie, N. C.  
 Uniontown, Pa.  
 Glen Burnie, Md.  
 Tampa, Fla.  
 Tampa, Fla.  
 Lenoir City, Tenn.  
 Durham, N. C.  
 Washington, D. C.  
 Starkville, Miss.  
 Ashland, Ky.  
 Jacksonville, Fla.  
 Kenmore, N. Y.  
 Durham, N. C.  
 Westfield, N. J.  
 Petersburg, Va.  
 Richmond, Va.  
 Chevy Chase, Md.  
 York, Pa.  
 Ridgewood, N. J.  
 Charlotte, N. C.  
 Durham, N. C.  
 Fayetteville, N. C.  
 Bloomfield Hills, Mich.  
 Montclair, N. J.  
 Buffalo, N. Y.  
 Chattanooga, Tenn.  
 Passaic, N. J.  
 Sanford, N. C.  
 Hendersonville, N. C.  
 New York, N. Y.  
 River Edge, N. J.  
 Hartwell, Ga.  
 Miami Beach, Fla.  
 Allentown, Pa.  
 Chapel Hill, N. C.  
 Drexel Hill, Pa.  
 New Rochelle, N. Y.  
 Bronxville, N. Y.  
 Opp, Ala.  
 Erie, Pa.  
 Bound Brook, N. J.  
 McKeesport, Pa.  
 DuBois, Pa.  
 Leland, Miss.  
 Mt. Washington, Md.  
 Durham, N. C.  
 Ft. Bragg, N. C.  
 Canton, O.  
 Jacksonville, Fla.  
 Southern Pines, N. C.  
 Chattanooga, Tenn.  
 Birmingham, Mich.  
 Greensboro, Md.  
 Wilmington, N. C.  
 Charlotte, N. C.

Rawdon, Janet  
 Rescorla, Betty  
 Rettew, Janet Pierce  
 Rice, Ruth Harriet  
 Rieger, Vivian Theresa  
 Roe, Jane Elizabeth  
 Rosch, Beatrice Eloyce  
 Ruark, Frances Ione  
 Ruffcorn, Eleanor Foster  
 Ruffin, Mary Leona  
 Russell, June  
 Saleeby, Helen  
 Sarmiento, Maria Trinidad  
 Schoenberger, Ruth Isobel  
 Scott, Ruth Eleanor  
 Sewall, Elizabeth Carolyn  
 Sexton, Edna Earle  
 Shortlidge, Elizabeth  
 Shuford, Betty Lindsay  
 Simmons, Ruth Virginia  
 Smith, Helen Baxter  
 Smith, Virginia Bryce  
 Smither, Lucy Gray  
 Southworth, June Anne  
 Stater, Mildred Elinor  
 Stine, Doris Gwendolyn  
 Stone, Dorothy Haines  
 Storb, Mary  
 Stratton, Mary Caroline  
 Tabor, Wilma Countess  
 Tepper, Ruth Elise  
 Thompson, Mary Claire  
 Thoms, Joan Louise  
 Townsend, Priscilla Anne  
 Vantine, Ora Jean  
 Wallace, Jean Loretta  
 Weischer, Virginia  
 Weller, Mary Elizabeth  
 Whitaker, Elizabeth Anne  
 Wichum, Carolyn Georgene  
 Wilkins, Dorothy Barnum  
 Williams, Martha Jane  
 Wilson, Helen Hall  
 Winston, Kennon Wren  
 Winters, Jane  
 Witten, Helen Rose  
 Wolford, Isabelle Hamlin  
 Womble, Olivia  
 Woodard, Mary Elizabeth  
 Woods, Lydia Annis  
 Wray, Jean  
 Wright, Florence Margaret  
 Wriston, Muriel Lincoln  
 Zecher, Dorothea May  
 Zuckerman, Ethel Mae

Oberlin, O.  
 Wilkes-Barre, Pa.  
 Harrisburg, Pa.  
 Bluefield, W. Va.  
 New York, N. Y.  
 Moundsville, W. Va.  
 White Plains, N. Y.  
 Park Ridge, Ill.  
 Des Moines, Iowa  
 Raleigh, N. C.  
 Pensacola, Fla.  
 Dillon, S. C.  
 Saugerties-on-Hudson, N. Y.  
 Lawrenceville, N. J.  
 Waynesburg, Pa.  
 York Village, Me.  
 Zebulon, N. C.  
 Lincoln University, Pa.  
 Conover, N. C.  
 Wilmington, Del.  
 Virginia Beach, Va.  
 Baldwin, N. Y.  
 Winston-Salem, N. C.  
 Edgewater, Md.  
 Cherry Run, W. Va.  
 Hagerstown, Md.  
 Biddeford, Me.  
 New Holland, Pa.  
 Lewisburg, W. Va.  
 Boissevain, Va.  
 Baltimore, Md.  
 Miami Beach, Fla.  
 Hawthorne, N. J.  
 Port Arthur, Texas  
 Great Falls, S. C.  
 Newark, N. J.  
 Montrose, N. Y.  
 Pittsburgh, Pa.  
 Indianapolis, Ind.  
 Brooklyn, N. Y.  
 Rockville Center, N. Y.  
 Easton, Pa.  
 Beaver, Pa.  
 Minneapolis, Minn.  
 Greenwich, Conn.  
 Oxford, N. C.  
 Elizabeth, N. J.  
 Winston-Salem, N. C.  
 Wilson, N. C.  
 Durham, N. C.  
 Norton, Va.  
 Orangeburg, S. C.  
 Albany, N. Y.  
 Lebanon, Pa.  
 Durham, N. C.

## SENIOR CLASS

Abels, Elizabeth Josephine  
 Anderson, Mary

High Point, N. C.  
 New Bern, N. C.

Ashworth, Geraldine  
Auld, Fan  
Baggs, Genevieve Clem  
Barnwell, Pauline Lee  
Beall, Patricia  
Beebe, Estella Thomson  
Bender, Mary Charlotte  
Benton, Doris Annette  
Bierstein, Marie Theresa  
Bishop, Virginia Eleanor  
Blair, Barbara Wilson  
Bliss, Joan  
Bogert, Elizabeth Jane  
Braznell, Virginia Marie  
Buell, Marion  
Buffington, Mary Adelaide  
Burgess, Ellen Knowles  
Bussey, Mary Whitmell  
Carrigan, Margaret Helen  
Carter, Mary Elizabeth  
Caton, Mary Beth  
Clarke, Erin O'Neal  
Cockrell, Nancy Steele  
Coffman, Julia Gray  
Cope, Jane Hissem  
Council, Mary Frances  
Couse, Ruth Knight  
Daniel, Annie Whitty  
Davis, Pauline Nichols  
Davison, Zenora Robbins  
De Camp, Mary Jean  
Dickerson, Jean Elaine  
Dipman, Jean Frances  
Dives, Ann Augustine  
Dusenbury, Jane Elizabeth  
East, Jane  
Ellis, Erlene Rebecca  
Eppleman, Margaret Carolyn  
Fields, Alice Carr  
Fite, Jane Rankin  
Forness, Mary Cameron  
Fulton, Mary Virginia  
Garrison, Evelyn  
Gassaway, Lucy James  
Gibson, Patria Blayne  
Gilbert, Betty Gene  
Grainger, Rachel Virginia  
Grant, Mary Jean  
Griffin, Mary Virginia  
Gunn, Jane Adair  
Hahn, Frances Elaine  
Hardesty, Dora Virginia  
Hardy, Johnnie Mae  
Harris, Teresa  
Heath, Stella Hartsfield  
Herrmann, Ruth Oldham  
Heyward, Mary Anne  
Hickman, Elizabeth Dula  
Hicks, Norma Ellen

Bluefield, W. Va.  
Charleston, W. Va.  
Newark, O.  
Atlanta, Ga.  
Fort Wayne, Ind.  
Lewes, Del.  
Lititz, Pa.  
Fremont, N. C.  
Shenandoah, Pa.  
Vineland, N. J.  
Monmouth, Ill.  
Nashville, Tenn.  
Ridgewood, N. J.  
Miami Beach, Fla.  
Rochester, N. Y.  
Berkshire, N. Y.  
Worcester, Mass.  
West Palm Beach, Fla.  
Jersey City, N. J.  
New York, N. Y.  
Bluefield, W. Va.  
Macon, Ga.  
Evanston, Ill.  
Clarksburg, W. Va.  
McKeesport, Pa.  
Durham, N. C.  
Baltimore, Md.  
Durham, N. C.  
Roanoke, Va.  
Chattanooga, Tenn.  
Clarksburg, W. Va.  
Schenectady, N. Y.  
Upper Montclair, N. J.  
Shillington, Pa.  
Miami, Fla.  
East Orange, N. J.  
York, Pa.  
Gloucester, N. J.  
La Grange, N. C.  
Jasper, Ala.  
Drexel Hill, Pa.  
Roanoke, Va.  
Durham, N. C.  
Nashville, N. C.  
Arlington, Va.  
Chattanooga, Tenn.  
Waupun, Wis.  
Asheville, N. C.  
Baltimore, Md.  
Belleville, Ill.  
Toledo, O.  
Fairmont, W. Va.  
Gulfport, Miss.  
Dover, N. J.  
Kinston, N. C.  
Baltimore, Md.  
Asheville, N. C.  
Lenoir, N. C.  
Augusta, Ga.

Hill, Dora Leneva  
 Holden, Charlotte Louise  
 Holland, Mary Brent  
 Hollmeyer, Anne Elizabeth  
 Holly, Helen Katherine  
 Holt, Betty Bartlett  
 Huffman, Dorothy Elizabeth  
 Huggins, Mary Delaplane  
 Hughes, Ann Miriam  
 Hungate, Elizabeth Ward  
 Huntington, Eleanor Gertrude  
 Idema, Mary Louise  
 Ivey, Jane Capus  
 Jenkins, Barbara Jane  
 Jennings, Betty Claire  
 Johnson, Irma Lee  
 Johnson, Mabel Beaumont  
 Jones, Emily Elizabeth  
 Jones, Louise Lambeth  
 Jones, Perry Lee  
 Jones, Thelma Dean  
 Jones, Virginia Griffith  
 Josephs, Frances Rae  
 Kelleher, Ruth Margaret  
 Kern, Jean Russ  
 Kilduff, Barbara  
 King, Annie Ruth  
 Kirkpatrick, Frances Hilda  
 Kirkwood, Merle Aurelia  
 Klemme, Evelyn Ruth  
 Krampf, Mary Isabelle  
 Krummel, Mary Eleanor  
 Kurtzmann, Beverly Lorraine  
 Larsen, Doris Vivian  
 Latty, Carolyn Lucile  
 Lawrance, Mary Anna  
 Ledbetter, Martha Elizabeth  
 Leslie, Helen Isabel  
 Little, Lena Edwards  
 Littlejohn, Ethel Thompson  
 Love, Oleta Jane  
 Lundy, Eleanor Ann  
 McAdams, Grace Eloise  
 McBride, Louise Glenn  
 McCauley, Jeanne Yvonne  
 McComb, Martyne Louise  
 Mangum, Doris Cozart  
 March, Margaret Ann  
 Mathes, Dorothy Hannah  
 Maulsby, Kathleen McKay  
 Meiklejohn, Louise Alma  
 Miller, Charlotte Frances  
 Miller, Dorothy Elizabeth  
 Miller, Ruth Frances  
 Minor, Ruth Henrietta  
 Molloy, Margaret Rush  
 Moneyhun, Ariel  
 Moore, Jane Elizabeth  
 Morton, Margaret Holmes

Cuthbert, Ga.  
 New Bern, N. C.  
 High Point, N. C.  
 Mountain Lakes, N. J.  
 Harrisburg, Pa.  
 Wayland, Mass.  
 Asheville, N. C.  
 Hillsboro, O.  
 Sharon, Mass.  
 Sterling, Ill.  
 Rutherford, N. J.  
 Grand Rapids, Mich.  
 Concord, N. C.  
 Scranton, Pa.  
 Thomasville, N. C.  
 Washington, D. C.  
 Whiteville, N. C.  
 New Bern, N. C.  
 Charlotte, N. C.  
 Norfolk, Va.  
 Montgomery, Ala.  
 Wheeling, W. Va.  
 Chattanooga, Tenn.  
 Haddon Heights, N. J.  
 Washington, D. C.  
 Waterbury, Conn.  
 St. Pauls, N. C.  
 Greensboro, N. C.  
 Hattiesburg, Miss.  
 Belleville, Ill.  
 Drexel Hill, Pa.  
 Durham, N. C.  
 Maplewood, N. J.  
 West Englewood, N. J.  
 Durham, N. C.  
 Reading, Pa.  
 Rockingham, N. C.  
 Woodmont, Conn.  
 Laurel, Md.  
 Leesburg, Va.  
 Washington, D. C.  
 Troy, N. Y.  
 Belmont, N. C.  
 Welch, W. Va.  
 Hagerstown, Md.  
 Bluemont, Va.  
 Rougemont, N. C.  
 Mobile, Ala.  
 Upper Montclair, N. J.  
 Durham, N. C.  
 Cheraw, S. C.  
 Miami, Fla.  
 Bethlehem, Pa.  
 Newburgh, N. Y.  
 Batavia, N. Y.  
 Ivyland, Pa.  
 Johnson City, Tenn.  
 Birmingham, Ala.  
 Charleston, W. Va.

Mowshowitz, Lillian Polachek  
Nelson, Ellen Lucile  
Nelson, Phyllis Marjorie  
Newsom, Mary Toms  
Nuckols, Kathleen Eleanor  
Opper, Nellie-Anna  
Ormond, Margaret  
Osgood, Jenifer Davies  
Pace, Martha Young  
Parker, Ruth Isabelle  
Parker, Sarah Anne  
Parks, Helen Clare  
Patrick, Virginia Mary  
Pedeflous, Marie Louise  
Peters, Grace Lorraine  
Phillips, Dorothy Leigh  
Porter, Marion Elizabeth  
Potter, Gertrude Willard  
Price, Margaret Mathilde  
Privett, Leonora  
Pyle, Betty  
Queen, Mary Kathryn  
Ramsaur, Edith Merrill  
Rankin, Sara Elizabeth  
Rocke, Helen Elizabeth  
Sawyer, Dorothy Louise  
Schmidt, Martha Kate  
Seeman, Nancy Renn  
Sewell, Frances Ava  
Shaw, Winifred  
Sidbury, Julia Rowena  
Sisk, Mary Helen  
Skinner, Virginia Elizabeth  
Smith, Mary Elizabeth  
Souders, Mary Elizabeth  
Southgate, Loula McDonald  
Stallcup, Marjorie Conser  
Starke, Helen  
Stedman, Willie Ruth  
Steele, Annie Louise  
Stine, Mary Elizabeth  
Stone, Elizabeth Wyllis  
Stowell, Betty Ann  
Strauss, Carol Marie  
Stutson, Irene Rose  
Sultner, Sarah Isabel  
Teer, Mary Elizabeth  
Thompson, Catherine  
Tice, Mary Pauline  
Tobey, Elizabeth Crispell  
Townsend, Roberta Elizabeth  
Varnes, Clara Louise  
Walker, Marion  
Wann, Mary Gene  
Wannamaker, Louise Gelzer  
Watson, Sarah Ann  
Whitaker, Ruth Lenore  
White, Margaret Beveridge  
Widgery, Rhoda

Durham, N. C.  
Russellville, Ark.  
Brooklyn, N. Y.  
Durham, N. C.  
Cumberland, Va.  
New Rochelle, N. Y.  
Durham, N. C.  
Ocean Grove, N. J.  
Wilkes-Barre, Pa.  
Rockingham, N. C.  
Vineland, N. J.  
Roanoke, Va.  
Mt. Washington, Md.  
Plainfield, N. J.  
Leighton, Pa.  
Charlotte, N. C.  
Durham, N. C.  
Evanston, Ill.  
Ridgewood, N. J.  
Tyler, Ala.  
Grand Rapids, Mich.  
Waynesville, N. C.  
Jacksonville, Fla.  
Gastonia, N. C.  
Norfolk, Va.  
Kenosha, Wis.  
Louisville, Ky.  
Durham, N. C.  
Atlanta, Ga.  
Chattanooga, Tenn.  
Wilmington, N. C.  
Waynesville, N. C.  
Durham, N. C.  
Chattanooga, Tenn.  
Fayetteville, N. C.  
Durham, N. C.  
St. Petersburg, Fla.  
Ridgewood, N. J.  
Moncure, N. C.  
Rockingham, N. C.  
Wilmington, Del.  
Arlington, Va.  
Philadelphia, Pa.  
Winston-Salem, N. C.  
Suffolk, Va.  
York, Pa.  
Durham, N. C.  
Graham, N. C.  
Bethlehem, Pa.  
Hackensack, N. J.  
Staten Island, N. Y.  
Wilmington, Del.  
Newport, N. C.  
Terre Haute, Ind.  
Durham, N. C.  
Cheraw, S. C.  
Dravosburg, Pa.  
Ridgewood, N. J.  
Durham, N. C.



Wiley, Avis Elizabeth  
 Wilkerson, Dorothy Earle  
 Willis, Anne Cecile  
 Winston, Marjorie  
 Witte, Patricia Marion  
 Woolfolk, Elizabeth Lamb  
 Wright, Margery Walker  
 Wynne, Marjorie Gray  
 Young, Jeanne Elizabeth  
 Zerbach, Dorothy Ione

Sharon, Conn.  
 Durham, N. C.  
 Daytona Beach, Fla.  
 Roanoke, Va.  
 Rahway, N. J.  
 Staunton, Va.  
 Clarksburg, W. Va.  
 Petersburg, Va.  
 Lakewood, O.  
 Rocky Mount, N. C.

## SPECIAL STUDENTS

Apperson, Mildred  
 Branson, Lois Stamey  
 Burch, Kate Umstead  
 Carver, Elizabeth  
 Cousins, Mattie Gray  
 Davis, Mary Ruby  
 Edwards, Annie Parker  
 Graves, Mary  
 Herndon, Nannie Mae  
 Jones, May Strawbridge  
 Lavinder, Douglas Hancock  
 McDavid, Virginia  
 McGavock, Sarah Nolen  
 Mangum, Mildred  
 Montgomery, Jean Elizabeth  
 Neamon, Anna  
 Pratt, Ruth  
 Ransdell, Ethel  
 Robertson, Netta Cook  
 Royster, Lucy  
 Schnoor, Florence Handy  
 Sears, Kathleen  
 Strayhorn, Louise  
 Thomas, Maisie Alice  
 Watson, Maxine Maloney  
 Weckesser, Miriam Elizabeth  
 Whitted, Theo Holleman  
 Williams, Iola Crisp  
 Wright, Claudia

Durham, N. C.  
 Durham, N. C.  
 Creedmoor, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Danville, Va.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Chapel Hill, N. C.  
 Norton, Va.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Detroit, Mich.  
 Durham, N. C.  
 Durham, N. C.  
 Varina, N. C.  
 Burlington, N. C.  
 Henderson, N. C.  
 Berkeley, Cal.  
 Durham, N. C.  
 Durham, N. C.  
 Ontario, Canada  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Cedar Grove, N. C.  
 Durham, N. C.

## THE GRADUATE SCHOOL OF ARTS AND SCIENCES

## ACADEMIC YEAR, 1937-38

Adman, Andrew George	Aliquippa, Pa.
B.S. (North Carolina State College), Forestry.	
Anderson, Marcia Lee	Durham, N. C.
A.B. (Bryn Mawr College), A.M. (Duke), English.	
Ayers, John Carr	Marcellus, Mich.
A.B. (Kalamazoo College), M.S. (Kansas State College), Zoology, Botany.	
Bagley, Mariana Dasch	Norfolk, Va.
A.B. (Duke), History, Economics.	
Ballenger, Stanley Thomas	Raleigh, N. C.
A.B., A.M. (University of North Carolina), German, English.	
Barbour, William Johnston	Chapel Hill, N. C.
A.B. (University of North Carolina), Botany, Forestry.	

- Baseman, Hazel Henrietta  
B.Ed. (St. Cloud State Teachers College), Education, Sociology. Hutchinson, Minn.
- Baum, Rhoda May  
A.B. (Greensboro College), Chemistry, Physics. Kitty Hawk, N. C.
- Beamer, Celestine Marie  
B.S. (Duke), Physiology. Durham, N. C.
- Beckman, John Fink  
A.B. (Stanford), Chemistry, Physics. Lodi, Calif.
- Bennett, Georgia Belle  
A.B. (College of William and Mary), Psychology, Zoology, Education. Richmond, Va.
- Bennett, Ruth  
A.B. (Duke), A.M. (Columbia), English. Clarksburg, W. Va.
- Bethel, James Samuel  
B.S. (University of Washington), Forestry, Botany. Roy, Wash.
- Bevel, Nelle Hester  
B.S. (College of the Ozarks), A.M. (University of Arkansas), Zoology, Botany. Pine Bluff, Ark.
- Biggerstaff, Frank Malcolm  
A.B. (Duke), Education. Burlington, N. C.
- Black, Henry Arnold  
B.S., A.M. (Boston), English, German. Boston, Mass.
- Bogges, William Randolph  
A.B. (Concord State Teachers College), Botany, Forestry. Oakvale, W. Va.
- Bolen, Claude Waldron  
A.B. (Emory and Henry College), A.M. (Duke), History. Bluefield, W. Va.
- Boomhour, Elizabeth Gregory  
A.B. (Meredith College), A.M. (Cornell), Botany, Forestry. Raleigh, N. C.
- Bortner, Clyde Randall  
B.S. (Franklin and Marshall College), Chemistry. Hanover, Pa.
- Brach, Earl Tilton  
A.B. (Duke), Greek, Latin. Baltimore, Md.
- Brandis, Roland Buford, Jr.  
A.B. (University of Richmond), Economics, Political Science. Richmond, Va.
- Breslow, David Samuel  
B.S. (College of the City of New York), Chemistry, Physics. Ozone Park, N. Y.
- Brice, Ashbel Green  
A.B., A.M. (Columbia), English. York, S. C.
- Bright, Robert Dietrich  
A.B. (Dartmouth College), Chemistry. Passaic, N. J.
- Broadway, Blanche  
A.B., A.M. (Duke), History. Durham, N. C.
- Brown, James Wilson  
B.S. (University of Maryland), A.M. (Duke), Forestry. Washington, D. C.
- Bruner, Jerome Seymour  
A.B. (Duke), Psychology, Zoology, Philosophy. Forest Hills, N. Y.
- Burt, Everett Johnson, Jr.  
A.B. (Berea College), A.M. (Duke), Economics, Sociology, History. Jackson, Mich.
- Bussell, Wilsie Florence  
A.B. (Duke), Romance Languages. Durham, N. C.
- Cain, Herbert Lloyd  
A.B. (Southwestern), Greek, Latin. Asheville, N. C.
- Calfee, John Douglas  
A.B. (Park College), M.S. (University of Tennessee), Chemistry. Arden, N. C.
- Canaday, Ernest Franklin  
A.B. (William Jewel College), A.M. (University of Missouri), Mathematics. Raleigh, N. C.
- Carlton, John Buford  
B.S. (University of Georgia), Forestry. Hartwell, Ga.

- Carroll, James Grover Wake Forest, N. C.  
A.B. (Wake Forest College), A.M. (Columbia), Mathematics.
- Chaffin, Nora Campbell Durham, N. C.  
A.B., A.M. (Duke), History.
- Christenson, James Andreas, Jr. Durham, N. C.  
A.B. (Harvard), Psychology, Philosophy, Education.
- Clark, John Bunyan, Jr. Macon, Ga.  
A.B. (Mercer), History, Economics.
- Clay, Leo Roderick Lynchburg, Va.  
A.B. (Lynchburg College), Psychology, Education.
- Colloms, Lester Hubert Cleveland, Tenn.  
A.B. (Emory and Henry College), B.D. (Emory), Religion, Sociology, Philosophy.
- Cooper, Gerald Rice Durham, N. C.  
A.B. (Duke), Chemistry, Physics.
- Copeland, Lewis Campbell Houston, Tex.  
A.B. (Texas Christian), A.M. (University of Chicago), Sociology.
- Correll, Donovan Stewart Winston-Salem, N. C.  
A.B., A.M. (Duke), Botany.
- Covington, Mary Faison Thomasville, N. C.  
A.B. (Duke), English.
- Cox, Headley Morris, Jr. Mount Olive, N. C.  
A.B. (Duke), English.
- Coy, Nettie Helena Upper Gagetown,  
N. B., Canada  
A.B. (University of New Brunswick), A.M. (Columbia), Physics.
- Craig, Ruth Winifred Durham, N. C.  
A.B. (University of North Carolina), History, Education.
- Creegan, Robert Francis Chautauqua, N. Y.  
A.B. (Marietta College), A.M. (Duke), Philosophy, Religion, Psychology.
- Culbreth, Sarah Elizabeth Rocky Mount, N. C.  
A.B., A.M. (Duke), Zoology.
- Dale, William Pratt, II Greensboro, Ala.  
A.B., A.M. (Duke), History.
- Derr, Paul W. Hazleton, Pa.  
B.S. (Duke), Chemistry.
- Devers, Nancy Ora Raleigh, N. C.  
B.S., A.M. (George Peabody College for Teachers), Education, Philosophy.
- Dickerson, Robert Turpin Durham, N. C.  
A.B., A.M. (Duke), Physics.
- Dickson, Margaret Knoxville, Tenn.  
A.B. (University of Tennessee), Latin.
- Doby, Julia Lillian Newsom, N. C.  
A.B. (Woman's College of the University of North Carolina), Education.
- Doty, Cornelia Allen Los Angeles, Calif.  
A.B. (Stanford), A.M. (Mills College), Education.
- Doty, Roy A., Jr. Rogersville, Tenn.  
A.B. (Duke), Education, Psychology.
- Douglas, Jessie Owens Winnsboro, S. C.  
A.B. (Winthrop College), Education.
- Douglass, Elinor Marie Hartford, Conn.  
A.B. (Duke), English.
- Duehring, Frederica Elizabeth Washington, D. C.  
A.B. (Duke), History, English.
- Duehring, Virginia Atwell Washington, D. C.  
A.B. (Duke), History, Economics.

- Duke, Kenneth Lindsay  
A.B. (Brigham Young), Zoology. Heber City, Utah
- Dunsky, Irvin  
A.B. (University of Newark), Sociology, Philosophy, Zoology, Psychology. Newark, N. J.
- Ewing, Thomas Newell, Jr.  
A.B. (DePauw), A.M. (Syracuse), Psychology, Sociology. Springfield, Ill.
- Farley, John Thomas  
B.B.A. (Manhattan College), Economics. New York, N. Y.
- Feister, Irving  
A.B. (Harvard), Physics, Engineering. Norwich, Conn.
- Fischer, Monroe Carl  
A.B. (Duke), Economics, Political Science. Scranton, Pa.
- Flanders, Bertram Holland  
A.B., A.M. (Emory), English. Oxford, Ga.
- Flemister, Launce Johnson, Jr.  
A.B. (Duke), Zoology. Atlanta, Ga.
- Flora, William Evans Sherlock  
A.B. (College of Wooster), Political Science, Economics, Jurisprudence. Canton, Ohio
- Fluegel, Edna Rose  
A.B. (Marywood College), A.M. (Duke), Political Science. Wilkes-Barre, Pa.
- Formwalt, John McClellan  
A.B. (Carson-Newman College), Physics, Mathematics. Jefferson City, Tenn.
- Foster, Hazel Elizabeth  
A.B. (Hood College), A.M. (Duke), Political Science, History. Brunswick, Md.
- Fox, Theodore William  
A.B. (Union College), Chemistry, Physics. Albany, N. Y.
- Frank, Grady Craven  
A.B., A.M. (Oxford, England), Mathematics. Mount Airy, N. C.
- Frey, Ellen Frances  
A.B. (Barnard College), English, History. Elberon, N. J.
- Galloway, Charles Betts  
B.S. (Millsaps College), A.M. (Duke), Education. Jackson, Miss.
- Garber, Paul Leslie  
A.B. (College of Wooster), B.D., Th.M. (Louisville Presbyterian Theological Seminary), Religion, Psychology, Sociology, Philosophy. Dubuque, Iowa
- Garodnick, Irvin O.  
B.S., M.S. (North Carolina State College), German. Raleigh, N. C.
- Garren, Kenneth Howard  
A.B., A.M. (Duke), Botany, Zoology. Hendersonville, N. C.
- Garrison, John Leland  
A.B. (Duke), English. W. Durham, N. C.
- George, Theodore Samuel  
B.S. (Grove City College), A.M. (Duke), Mathematics. Grove City, Pa.
- Giesey, Jean Campbell  
A.B. (Barnard College), A.M. (Columbia), Psychology. New York, N. Y.
- Gilbert, Paul Wilner  
A.B., A.M. (University of Rochester), Mathematics. Avon, N. Y.
- Going, William Thornbury  
A.B. (University of Alabama), English. Birmingham, Ala.
- Goode, Benjamin Clifford  
A.B. (University of Richmond), A.M. (University of Virginia), History. Henry, Va.
- Gould, Robert Kent  
A.B. (Duke), Chemistry. Hamburg, N. J.
- Greene, John Thomas  
A.B. (Duke), Religion, Philosophy, Psychology. Rougemont, N. C.

- Guyton, Percy Love  
B.S. (Mississippi State College), M.B.A. (Northwestern), Economics. State College, Miss.
- Hamilton, William Baskerville, Jr.  
A.B., A.M. (University of Mississippi), History. Durham, N. C.
- Hargreaves, Herbert Walter  
A.B. (University of Nevada), A.M. (Clark), Economics. Reno, Nev.
- Hartz, Edwin Ruben  
A.B. (Southeast Missouri State Teachers College), B.D. (Duke), Sociology, Psychology, Economics. Puxico, Mo.
- Harwell, George Corbin  
A.B., A.M. (Duke), English. Durham, N. C.
- Hausser, Harry Edward  
A.B. (Duke), Philosophy, English. Scranton, Pa.
- Henderson, Alfred James  
A.B., A.M. (University of Rochester), History. Rochester, N. Y.
- Herndon, Nettie Southworth  
A.B., A.M. (West Virginia), History. Durham, N. C.
- Hexamer, Lauren Elwood  
B.S. (Purdue), Forestry. Canton, Ohio
- Hibbs, Max Lee  
B.S. (Alabama Polytechnic Institute), History, Economics. Alabama City, Ala.
- Hicks, Ethalyn Roberta  
A.B. (Woman's College of the University of North Carolina), Education, Sociology. Asheville, N. C.
- Hinson, Ellie Ford  
A.B. (East Carolina Teachers College), Education. Warrenton, N. C.
- Hodges, Carroll Broadus  
A.B., M.S. (University of Oklahoma), Psychology. Claremore, Okla.
- Holder, Virginia Smart  
A.B. (Randolph-Macon Woman's College), A.M. (Duke), Latin. Portsmouth, Va.
- Hopkins, John Isaac  
B.S., A.M. (Duke), Physics, Mathematics. Nokesville, Va.
- Howie, Naomi  
A.B. (Greensboro College), Religion, Sociology. Thomasville, N. C.
- Hudnall, Eva Irene  
B.S. (Farmville State Teachers College), English. Critz, Va.
- Humphreys, Mary Emily  
A.B. (Western Maryland College), Botany, Forestry. Berlin, Md.
- Jackson, David Kelly, Jr.  
A.B., A.M. (Duke), English. Durham, N. C.
- Jester, Joseph Richardson  
B.S. (Duke), Botany, Forestry. Asheville, N. C.
- Johnson, Eric Gustav  
Ph.B. (University of Chicago), English. Chicago, Ill.
- Johnson, Keith Whitaker  
A.B. (University of Kansas), Economics. Eureka, Kan.
- Johnson, Mary Mercedes  
A.B. (Indiana), Mathematics. Durham, N. C.
- Jones, Elijah Newman  
A.B. (Elon College), Education. Holland, Va.
- Jones, John Sneed  
B.S. (George Peabody College for Teachers), A.M., B.D. (Vanderbilt), Philosophy, Religion. Brentwood, Tenn.
- Jordan, Walter Edward  
B.S., A.M. (Wake Forest College), M.S. (North Carolina State College), Chemistry. Raleigh, N. C.
- Kirby-Smith, John Seldon  
B.S. (University of the South), A.M. (Duke), Physics, Chemistry. Sewanee, Tenn.

- Klein, James Raymond  
A.B. (Duke), Biochemistry. Baltimore, Md.
- Kuehner, Kenneth George  
A.B. (Allegheny College), A.M. (University of Pittsburgh), Education. Meadville, Pa.
- Lamas, Petro Charles  
A.B. (Emory), Greek. Savannah, Ga.
- Lavery, Carroll Dee  
A.B., A.M. (University of Colorado), English. Meeker, Colo.
- Leath, James Milton  
A.B. (Austin College), A.M. (Southern Methodist), Political Science, History. Brookhaven, Miss.
- Levenson, Morris E.  
A.B., M.Sc. (New York), Mathematics. Bronx, N. Y.
- Lever, Oscar William  
A.B. (Wofford College), Religion, Philosophy. Blackwood, S. C.
- Levy, Edward David  
A.B. (Harvard), Biochemistry, Bacteriology, Toxicology. Hartford, Conn.
- Lewis, Hubert Murry, Jr.  
B.S. (Duke), Chemistry, Physics. Henderson, N. C.
- Ligon, Edgar William, Jr.  
B.S. (University of Richmond), Zoology. Richmond, Va.
- Limouze, Arthur Sanford  
A.B. (College of Wooster), A.M. (Columbia), English. E. Marion, N. Y.
- Long, John William, Jr.  
A.B. (Dickinson College), History, Political Science. Williamsport, Pa.
- Louis, William K.  
A.B. (Duke), History, Economics. Schenectady, N. Y.
- Luttrell, Everett Stanley  
B.S. (University of Richmond), Botany, Zoology, Forestry. Richmond, Va.
- McCurdy, Harold Grier  
A.B. (Duke), Psychology. Salisbury, N. C.
- McCurdy, Mary Derrickson  
A.B. (Goucher College), A.M. (Syracuse), Zoology. Frederica, Del.
- McDougall, Kenneth Dougal  
(Duke), Zoology, Philosophy. Durham, N. C.
- McEwen, Noble Ralph  
A.B. (Birmingham-Southern College), A.M. (Duke), Education. Winston-Salem, N. C.
- McGavock, William Gillespie  
B.S. (Davidson College), A.M. (Duke), Mathematics. Franklin, Tenn.
- McGehee, William  
A.B. (University of the South), A.M. (George Peabody College for Teachers), Psychology. Raleigh, N. C.
- MacInnes, Donald Boyer  
A.B. (Linfield College), Philosophy, Psychology, Sociology. Kent, Ore.
- Magginis, Mary Amelia  
A.B. (Winthrop College), English. Rock Hill, S. C.
- Mangrum, James Freed  
B.S. (Memphis State Teachers College), M.S. (University of Tennessee), Zoology. Elbridge, Tenn.
- Marston, Frederic Carver, Jr.  
A.B. (Williams College), English. Durham, N. C.
- Marston, Helen Mount  
A.B. (Smith College), Mathematics. Durham, N. C.
- Martin, James Alfred, Jr.  
A.B. (Wake Forest College), Philosophy, Religion, Psychology. Roxboro, N. C.
- Martin, James Marion  
A.B. (Duke), English, Education. Kittrell, N. C.



- Martin, Willard Edgar, Jr.  
A.B. (Boston), A.M. (Harvard), English. Somerville, Mass.
- Maryott, Arthur Allen  
A.B. (Duke), Chemistry, Physics. Augusta, Ga.
- Meade, Mary Edmunds  
A.B. (Randolph-Macon Woman's College), A.M. (University of Virginia), Mathematics. Durham, N. C.
- Meares, Jefferson Sullivan  
B.S. (University of South Carolina), M.S. (North Carolina State College), Physics. Raleigh, N. C.
- Michaels, Matilda Osborne  
A.B. (Duke), A.M. (Columbia), Education. Durham, N. C.
- Michel, Harry Oscar  
B.S. (University of California), Biochemistry. San Andreas, Calif.
- Miles, Ernest Percy, Jr.  
B.S. (Birmingham-Southern College), Mathematics, Physics. Birmingham, Ala.
- Millar, Helen Mary  
A.B. (McMaster), Sociology. Hamilton, Ont., Canada
- Miller, Elizabeth Moore  
A.B. (Pennsylvania College for Women), English, Romance Languages. Oil City, Pa.
- Miller, Howard Clifford  
A.B. (Bridgewater College), Physics, Mathematics. Nokesville, Va.
- Miller, William Long  
B.B.A. (University of Chattanooga), Economics. Nashville, Tenn.
- Moody, Peter Richard  
A.B. (Wofford College), English. Cooleemee, N. C.
- Moore, Eunice Martha  
B.S. (Maryland College for Women), A.M. (Johns Hopkins), Chemistry. Deep River, Conn.
- Morgan, John Wesley  
A.B. (Duke), Education. Selma, N. C.
- Morgan, Kenneth James  
B.S. (Cornell), Forestry. Albany, N. Y.
- Morris, Lewis Harry  
A.B. (Duke), Economics. Chester, Pa.
- Morris, William Lind  
B.S. (Carnegie Institute of Technology), M.S. (University of Pittsburgh), Mathematics. Asheville, N. C.
- Morrison, Garrett Weir  
A.B. (Kansas State Teachers College), Psychology. Joplin, Mo.
- Morton, Louis  
B.S., A.M. (New York), History. New York, N. Y.
- Moss, Florence  
A.B. (Duke), English. Mobile, Ala.
- Mountjoy, Marjorie  
A.B. (Vanderbilt), Latin, Romance Languages. Martin, Tenn.
- Mumford, Carey Gardner  
A.B. (Wake Forest College), A.M. (Duke), Mathematics. Raleigh, N. C.
- Munster, Ralf Friedrich William  
A.B. (Duke), Political Science, Economics, Jurisprudence. Savannah, Ga.
- Nakamura, Junichi  
(Hiroshima), English. Hiroshima, Japan
- Nelson, Melvin Frederick  
B.S. (Mississippi State College), A.M. (Municipal University of Omaha), Political Science, History. Starkville, Miss.
- Nicholson, William Benjamin  
B.S., A.M. (George Peabody College for Teachers), History. Clarksville, Tenn.
- O'Leary, James John  
A.B., A.M. (Wesleyan), Economics. Manchester, Conn.

Oliver, Henry Madison, Jr.	Union City, Tenn.
A.B. (Southwestern), A.M. (Duke), Economics, Philosophy.	
Olliff, Martha	Cuthbert, Ga.
A.B. (Wesleyan College), Religion, Philosophy.	
Ostwalt, Jay Harold	Statesville, N. C.
A.B. (Davidson College), Education, Sociology.	
Owen, William Nathaniel	Schenectady, N. Y.
A.B. (Duke), Economics.	
Owens, William Hector	Danville, Ky.
A.B. (Centre College), Religion, Sociology.	
Park, Robert DeForest	Lakewood, Ohio
A.B. (Oberlin College), Physics, Mathematics.	
Parks, Helen Clare	Roanoke, Va.
A.B. (Duke), Chemistry, Physics.	
Pearson, Anna Sophia	Muskegon, Mich.
Ph.B. (University of Chicago), Education, Philosophy.	
Peck, Robert Lawrence	Binghamton, N. Y.
B.S. (Duke), Chemistry, Bacteriology, Zoology.	
Perry, Bruce Allen	Zebulon, N. C.
B.S., A.M. (Wake Forest College), Botany.	
Phillips, Edward Lindsey	Durham, N. C.
A.B., A.M. (Duke), History.	
Pittman, Louie Delle	Durham, N. C.
A.B. (East Carolina Teachers College), Education.	
Plantinga, Cornelius A.	Waupun, Wis.
A.B. (Calvin Coolidge), A.M. (University of Michigan), Philosophy, Psychology.	
Pohl, Herbert Ackland	Jacksonville, Fla.
A.B. (Duke), Chemistry, Physics.	
Pool, Frank Kenneth	Greenville, S. C.
A.B., A.M. (Wake Forest College), Religion, History.	
Pratt, Lanier Ward	Louisville, Ky.
A.B. (Davidson College), Romance Languages.	
Price, Margaret Mathilde	Ridgewood, N. J.
A.B. (Duke), Zoology.	
Putney, Anne Randolph Briscoe	Farmville, Va.
A.B. (Farmville State Teachers College), Political Science, Economics.	
Rawlings, Kenneth Winn	Louisville, Ky.
A.B. (Kentucky Wesleyan College), A.M. (University of Kentucky), History.	
Raynolds, Sara Ann	Albuquerque, N. M.
A.B. (University of New Mexico), Mathematics, Philosophy.	
Rein, William Christopher	Cumberland, Md.
A.B. (Western Maryland College), Education, Economics.	
Richman, Clyde Paul	Durham, N. C.
B.Ed. (Eastern Illinois State Teachers College), Education.	
Riley, Madison Monroe	Raleigh, N. C.
B.S. (North Carolina State College), Forestry.	
Robertson, Alfred Parkhill	Mayfield, Ky.
A.B. (University of Kentucky), English.	
Roney, William Hamilton	Dayton, Ohio
A.B. (Occidental College), A.M. (University of Michigan), Sociology.	
Ryerson, Clifford Marten	Binghamton, N. Y.
B.S. (John B. Stetson), Physics, Mathematics.	
Sartor, Mary Runyan	DeRidder, La.
A.B. (H. Sophie Newcomb Memorial College), English.	
Savely, Harvey Epperson, Jr.	Houlka, Miss.
B.S. (Mississippi State College), Zoology.	

- Scarborough, Henry Baldwin  
A.B. (Duke), Physics, Mathematics. Mt. Gilead, N. C.
- Schoenrich, Carlos Otto  
A.B. (University of North Carolina), A.M. (University of Michigan), Psychology. New York, N. Y.
- Seward, Donald Monfort  
A.B. (John B. Stetson), A.M. (University of North Carolina), Mathematics. DeLand, Fla.
- Sharp, David Gordon  
B.S. (Rutgers), A.M. (Duke), Physics, Chemistry, Bacteriology. Annandale, N. J.
- Shaw, John Sidney  
A.B. (Duke), History, Political Science. Orlando, Fla.
- Shore, Culver Cary  
A.B. (Duke), Economics. Trinity, N. C.
- Singer, Armand Edwards  
A.B. (Amherst College), Romance Languages. Brantford, Ont., Canada
- Slay, James Matthew  
A.B. (Duke), Romance Languages. Greenville, N. C.
- Smith, Burke McGuire  
A.B., A.M. (Duke), Psychology. Durham, N. C.
- Smith, Frank Ferrell  
A.B. (Duke), Botany. Durham, N. C.
- Snyder, William Ulrich  
A.B. (Gettysburg College), Psychology, Zoology, Education. Washington, D. C.
- Stabler, Carey Vitallis  
B.S., A.M. (University of Alabama), History. Greenville, Ala.
- Stadthagen, Heinz  
A.B. (Bethany College), A.M. (Duke), Economics. Pittsburgh, Pa.
- Stevenson, James Harold  
B.S. (Westminster College), A.M. (Oberlin College), Zoology, Physics. New Wilmington, Pa.
- Stroupe, Henry Smith  
B.S., A.M. (Wake Forest College), History. Alexis, N. C.
- Stroven, Carl Gerhardt  
A.B., A.M. (Stanford), English. Honolulu, Hawaii
- Stuckey, James Morlan  
B.S. (Centenary College), A.M. (Duke), Chemistry, Physics. Shreveport, La.
- Sutherland, George Foster  
A.B. (Duke), Chemistry. Grundy, Va.
- Talbert, Robert Harris  
A.B., B.S. (Southeast Missouri State Teachers College), A.M. (University of Missouri), Sociology, Economics, Psychology. Cape Girardeau, Mo.
- Tarrall, Elmer  
A.B. (Duke), Education. Durham, N. C.
- Tate, Russell Sage, Jr.  
A.B. (University of Richmond), Economics, Political Science. Richmond, Va.
- Taylor, Charles Theodore  
B.S. (University of Arizona), A.M. (Duke), Economics. Salome, Ariz.
- Thomas, David Boyd  
B.S., M.S. (North Carolina State College), Mathematics. Raleigh, N. C.
- Thomas, Mary Elizabeth  
A.B., A.M. (University of Arkansas), History. Fayetteville, Ark.
- Tilley, Nannie May  
A.B. (Woman's College of the University of North Carolina), A.M. (Duke), History. Bahama, N. C.
- Tobin, Catherine Elizabeth  
A.B. (College of Charleston), A.M. (Duke), Latin. Charleston, S. C.
- Toole, Eben Richard  
B.S. (New York State College of Forestry at Syracuse University), Forestry, Botany. Lanham, Md.

Torrissi, Alfred Fred	Mt. Vernon, N. Y.
B.S. (Fordham), Chemistry, Physics.	
Triplett, Edna Bernadine	Charlotte, N. C.
A.B. (Queens College), A.M. (Duke), English.	
Upchurch, Kathrine Manning	Durham, N. C.
A.B. (Duke), Sociology.	
Upchurch, Percy Bryant	Monroe, N. C.
A.B. (Wake Forest College), A.M. (Brown), B.D. (Yale), Religion, Psychology.	
Usry, John Bunyan	Oxford, N. C.
A.B. (Wake Forest College), English.	
Vermillion, Herbert Edward	Competition, Mo.
B.S. (Monmouth College), Chemistry.	
Wade, Luther Irwin	Elkin, N. C.
A.B. (Duke), Mathematics.	
Waite, Alex	Winter Park, Fla.
A.B. (University of South Carolina), M.Ed. (Duke), Education.	
Wallace, Lillian Parker	Raleigh, N. C.
A.B. (University of Denver), M.S. (North Carolina State College), History.	
Wang, Yen-chieh	Peiping, China
B.S. (National Tsing Hua University), M.S. (Cornell), Forestry.	
Ward, William Smith	Lexington, Ky.
A.B. (Georgetown College), A.M. (Harvard), English.	
Watkins, Virgil Gray	Kent's Store, Va.
B.S. (University of Virginia), Forestry, Botany.	
Watson, Karl Brantley, Jr.	Durham, N. C.
B.S., A.B. (University of Chattanooga), A.M. (Duke), Education.	
Watts, Hessie	Mooresville, N. C.
A.B., A.M. (Duke), English.	
Wharton, George Willard, Jr.	Upper Montclair, N. J.
B.S. (Duke), Zoology.	
White, Harry Arthur	Jackson, Mich.
A.B. (Albion College), History, Political Science.	
White, Mary Rebecca	Fairmont, W. Va.
A.B. (Fairmont State Teachers College), A.M. (Duke), Latin.	
Williams, Myra Allene	Abbeville, S. C.
A.B. (Winthrop College), A.M. (University of South Carolina), Zoology.	
Williams, William Lane	Spartanburg, S. C.
B.S. (Wofford College), Zoology, Anatomy.	
Wilson, John Woodrow	Durham, N. C.
B.S. (Duke) Zoology.	
Woodruff, Joseph Leroy	Des Moines, Iowa
A.B. (Tarkio College), Psychology, Sociology.	
Wright, James Clyde	Oakdale, Pa.
A.B. (Muskogum College), Psychology, Philosophy, Sociology.	
Yarbrough, Mary Elizabeth	Raleigh, N. C.
A.B. (Meredith College), M.S. (North Carolina State College), Chemistry, Bio-chemistry.	
Young, DeWalt Secrist	Lisbon, Iowa
A.B. (Cornell College), Chemistry.	
Young, Paul Gordon	Decatur, Ga.
B.Ph. (Emory), A.M. (Tulane), German.	

## SUMMER OF 1937; FIRST TERM

Abee, Florence Edwina	Tampa, Fla.
A.B. (Florida State College for Women), English.	
Adams, William Marvin	Ackerman, Miss.
A.B. (Mississippi College), Education, History.	

- Ader, Anne Rachel  
A.B. (Greensboro College), Education. Coleridge, N. C.
- Aitken, Edward Stark  
B.S. (Mansfield State Teachers College), Education, History. Montrose, Pa.
- Akins, Charles Wesley  
B.S. (Mississippi State College), Education. Ethel, Miss.
- Alexander, Ellen  
A.B. (Winthrop College), History, English. Mountville, S. C.
- Allaben, Sara  
A.B. (Georgia State College for Women), Romance Languages. Thomson, Ga.
- Allen, James Rollings  
B.S. (Western Kentucky State Teachers College), Education. Rock Haven, Ky.
- Alvis, Ventrue Elizabeth  
A.B. (Marshall College), Education. Ceredo, W. Va.
- Anderson, Julia Lynn  
A.B. (Maryville College), English. Chattanooga, Tenn.
- Anderson, Marcia Lee  
A.B. (Bryn Mawr College), A.M. (Duke), English. Durham, N. C.
- Andrews, Mary Ruth  
A.B. (West Virginia), Education. Alderson, W. Va.
- Archer, Cordelia Pearl  
B.S. (East Tennessee State Teachers College), Education, History. Johnson City, Tenn.
- Armstrong, Leo Henry  
B.S.E. (University of Florida), Education. Bradenton, Fla.
- Arnold, Mary Elva  
A.B. (Rollins College), Education, English. Groveland, Fla.
- Arnold, Mary Logan  
A.B. (Georgetown College), Sociology, Education. Danville, Ky.
- Ash, Catharine Thomas  
A.B. (Florida State College for Women), Education, English. Tarpon Springs, Fla.
- Ashby, Dewey Theodore  
A.B. (Mercer), A.M. (George Peabody College for Teachers), Education. Rome, Ga.
- Atkins, Emily Lucy Howard  
A.B. (Florida State College for Women), History. Jacksonville, Fla.
- Atkinson, Annie Laurie  
A.B. (Winthrop College), Education. Mullins, S. C.
- Ayers, Archie Raymond  
B.S. (University of South Carolina), Mathematics. Calhoun Falls, S. C.
- Bailey, Gertrude Elizabeth  
B.S. (East Radford State Teachers College), Education. Dryden, Va.
- Bailey, Rosalie Vincent  
A.B. (Lander College), English, Romance Languages. Greenwood, S. C.
- Baker, Ira Lee  
A.B. (Wake Forest College), Education, English. China Grove, N. C.
- Baker, Ruth Maurine  
A.B. (John B. Stetson), History, Education. Daytona Beach, Fla.
- Baldwin, Naomi Louise  
A.B. (New River State College), English. Montgomery, W. Va.
- Barber, Daniel Clyde, Jr.  
A.B. (The Citadel), Education. Clio, S. C.
- Barber, Veva Alberta  
B.S. (Central Missouri State Teachers College), English. Orrick, Mo.
- Barr, Coke Lafyles  
B.S. (Florida Southern College), Education. Jacksonville, Fla.
- Barr, Leon Vincent  
S. Renovo, Pa.  
B.S. (Lock Haven State Teachers College), Education.

Batten, Alice Moffitt A.B. (Duke), Education.	Charlotte, N. C.
Batten, Anne Jackson A.B. (Queens-Chicora College), Education, English.	Charlotte, N. C.
Baum, Rhoda May A.B. (Greensboro College), Chemistry.	Kitty Hawk, N. C.
Baxter, James Edward A.B. (Millsaps College), Political Science, Education.	Meridian, Miss.
Beam, Joshua Paul A.B. (Furman), Education, Economics.	Gaffney, S. C.
Beamer, Celestine Marie B.S. (Duke), Pharmacology.	Irvin Falls, Idaho
Beck, Clifford Keith A.B. (Catawba College), Physics.	Salisbury, N. C.
Beck, Flora Elizabeth A.B. (University of Chattanooga), English, Education.	Chattanooga, Tenn.
Bee, Carl Edward B.S. (Indiana State Teachers College), Education.	Clymer, Pa.
Becker, Henry Judson B.S. (Appalachian State Teachers College), History.	Statesville, N. C.
Bennett, Johnnie Stein A.B. (Maryville College), History.	Winder, Ga.
Berry, Christine B.S. (Mississippi State College for Women), Education, Economics.	Jackson, Miss.
Biggerstaff, Frank Malcolm A.B. (Duke), Education.	Forest City, N. C.
Bigham, Virgil Lee, Jr. A.B. (Mississippi College), Education, Economics.	Pontotoc, Miss.
Bird, Imogen A.B. (Mary Baldwin College), Education.	Washington, D. C.
Bird, Ralph Sidney B.S. (Morris Harvey College), Education.	Athens, W. Va.
Bland, William Le Roy A.B. (Arkansas State Teachers College), Economics.	Bellwood, Pa.
Blitch, Mary Margaret B.S. (South Georgia Teachers College), English.	Statesboro, Ga.
Bloom, Robert Louis B.S. (Shippensburg State Teachers College), History.	Tyrone, Pa.
Boal, Ruth Beatrice A.B. (Juniata College), Romance Languages.	Huntingdon, Pa.
Boatwright, Eleanor Miot B.S. (Columbia), History.	Augusta, Ga.
Bobo, William Pervy A.B. (Mississippi College), Education.	Eupora, Miss.
Boland, Joseph Bethro A.B. (Marshall College), Education.	Iaeger, W. Va.
Bolling, Louise Porter B.S. (University of Kentucky), Education.	Danville, Ky.
Boomhour, Elizabeth Gregory A.B. (Meredith College), A.M. (Cornell), Botany.	Raleigh, N. C.
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B.S. (Albright College), Education, Psychology. Bethel, Pa.
- Stoughton, Eugene Delbert  
B.S. (University of Pittsburgh), Education, History. Oil City, Pa.
- Stover, Kermit Martin  
B.S. (Lock Haven State Teachers College), Education. Lock Haven, Pa.
- Stremmel, Olive Romaine  
B.S. (Millersville State Teachers College), Education. Hanover, Pa.
- Strickland, Cecil Calvert  
A.B. (Glenville State Teachers College), M.S. (West Virginia), Botany. Clendenin, W. Va.
- Strother, Lucy Lee  
A.B. (Duke), Education. Franklinton, N. C.
- Strother, Melissa Adele  
A.B. (Duke), Education. Franklinton, N. C.
- Stumpf, Phillip Quay  
A.B. (Franklin and Marshall College), History. Lancaster, Pa.
- Styer, Mildred Miller  
A.B. (Bucknell), Mathematics. Kennett Square, Pa.
- Summers, George Boyd  
A.B. (Newberry College), Education, Economics. Oxford, N. C.
- Summers, Linnie Sue  
A.B. (Cumberland), Romance Languages. McMinnville, Tenn.
- Sutor, Jack Alexander  
B.Ed. (Northern Illinois State Teachers College), History. St. Petersburg, Fla.
- Sutton, Homer Bates  
B.S. (Georgia State College for Men), Education. Fitzgerald, Ga.
- Swearingen, Mildred Emily  
A.B. (Oberlin College), Education. Eagle Lake, Fla.
- Swendiman, Dorothy Della  
A.B. (Flora Macdonald College), History. Tampa, Fla.
- Sypher, Ruth Margaret  
B.S. (Mansfield State Teachers College), Education, English. Picture Rocks, Pa.
- Tarrall, Elmer  
A.B. (Duke), Education, History. Norfolk, Va.

Taylor, Charles Theodore	Elko, Nev.
B.S. (University of Arizona), Economics.	
Taylor, Doris Lavenia	Pocomoke City, Md.
B.S. (Fredericksburg State Teachers College), Education, Sociology.	
Taylor, Myra Virginia	Meggett, S. C.
B.S. (College of Charleston), Education.	
Taylor, Noel Alexander	Willamstown, Pa.
B.S. (Shippensburg State Teachers College), Education.	
Taylor, Sue	Grapeland, Tex.
A.B. (Sam Houston State Teachers College), English.	
Teagarden, Lucetta Jane	Carmichaels, Pa.
A.B. (Wilson College), English.	
Templeton, William Eidson	Augusta, Ga.
A.B. (Wofford College), Economics.	
Tew, Thelma Pearle	Sanford, Fla.
A.B. (Florida State College for Women), Education.	
Thomas, David Boyd	Raleigh, N. C.
B.S., M.S. (North Carolina State College), Physics.	
Thomas, Margaret Elisabeth	Waynesburg, Pa.
A.B. (Waynesburg College), English.	
Thompson, Clarence Edward	Freedom, Pa.
B.S. (Geneva College), Mathematics, Education.	
Thompson, Lucille Zellma	Chattaroy, W. Va.
A.B. (Berea College), Romance Languages.	
Thompson, Maurine	Mathiston, Miss.
B.S. (Mississippi Delta State Teachers College), English.	
Thorne, Elizabeth Alston	Airlie, N. C.
A.B. (Greensboro College), Education.	
Till, Mary	Birmingham, Ala.
B.S. (Birmingham-Southern College), Education.	
Titus, Donald James	Waynesburg, Pa.
A.B. (Waynesburg College), English.	
Tolbert, Nancy Undine	Spartanburg, S. C.
B.S. (Converse College), Mathematics.	
Toney, Mary	Johnston, S. C.
A.B. (University of South Carolina), English.	
Townsend, Harley Vance	Barboursville, W. Va.
B.S. (Morris Harvey College), Education.	
Trent, Rosalind Lee	Concord Depot, Va.
A.B. (Woman's College of the University of North Carolina), Education.	
Trowbridge, Eleanor Goodhue	Brevard, N. C.
A.B. (Duke), English.	
Turner, Frances Fuller	Gulfport, Miss.
A.B. (Mississippi State College for Women), Education.	
Uhler, Katherine	Louisburg, N. C.
(Sorbonne, Paris, France), Romance Languages.	
Usher, Edna Ione	Gibson, N. C.
A.B. (Winthrop College), Education.	
Valentine, John Leroy	Dickerson Run, Pa.
B.S. (Indiana State Teachers College), Education.	
Vermillion, Herbert Edward	Competition, Missouri.
B.S. (Monmouth College), Chemistry.	
Vernon, Sarah Elizabeth	Burlington, N. C.
A.B. (Meredith College), Political Science.	
Vinson, Raymond Augustus	S. Jacksonville, Fla.
A.B. (University of Florida), Education.	

- Wagner, Carl Leon Homestead, Fla.  
A.B. (University of Miami), Education.
- Wagner, Horace McDonald Montcalm, W. Va.  
A.B. (Concord State Teachers College), Education.
- Waite, Alex Durham, N. C.  
A.B. (University of South Carolina), M.Ed. (Duke), Education.
- Waite, Edwin Emerson, Jr. New Hampton, N. H.  
B.S. (Middlebury College), Sociology.
- Wake, Orville Wentworth Strasburg, Va.  
A.B. (Lynchburg College), Education, Psychology.
- Walker, Thelma Pauline Johnson City, Tenn.  
B.S. (East Tennessee State Teachers College), Education.
- Wallace, Charles Thomas Hillsboro, Miss.  
A.B. (Mississippi College), Education.
- Wallin, Virginia Stanton Wilmington, Del.  
A.B. (University of Delaware), Education.
- Walsh, Anastasia Charleston, S. C.  
B.S. (College of Charleston), English, Education.
- Walsh, Mary Katherine Charleston, S. C.  
B.S. (College of Charleston), English, Education.
- Walter, Selwyn Bernard Edon, Ohio  
B.S. (Ohio State), History.
- Walters, Eleanor Boyd Gunnison, Miss.  
B.S. (Mississippi Delta State Teachers College), Mathematics.
- Ward, William Smith Lexington, Ky.  
A.B. (Georgetown College), A.M. (Harvard), English.
- Ware, James Edgar Benevolence, Ga.  
B.S. (South Georgia Teachers College), Education.
- Warren, Ida Leane Spring Hope, N. C.  
A.B. (Meredith College), Mathematics.
- Watson, Sarah Elizabeth Tarpon Spring, Fla.  
A.B. (Florida State College for Women), Education.
- Weaver, Benjamin Rhoads Columbia, Pa.  
B.S. (Millersville State Teachers College), History, Education.
- Weaver, Mary Virginia Asheville, N. C.  
A.B. (Randolph-Macon Woman's College), Education.
- Weeks, William Benn Westfield, Pa.  
B.S. (Mansfield State Teachers College), Education.
- Weidman, Elizabeth Irene Ephrata, Pa.  
B.S. (Millersville State Teachers College), Education, English.
- Weinhold, Mary Sara Lancaster, Pa.  
B.S. (Millersville State Teachers College), Education.
- Welborn, Marjorie High Point, N. C.  
A.B. (High Point College), English.
- Weller, Grace Harlowe Canmer, Ky.  
A.B. (Maryville College), English.
- Weller, Wayne Fort Knox, Ky.  
A.B. (Western Kentucky State Teachers College), Education.
- Wertsch, Lavilla Elizabeth Ephrata, Pa.  
B.S. (Millersville State Teachers College), Education, Sociology.
- Wertz, Roy Albert Frackville, Pa.  
A.B. (Muhlenberg College), Mathematics.
- Westmoreland, Aliceteen Thomasville, N. C.  
A.B. (Woman's College of the University of North Carolina), Education.
- Wetmore, Thomas Hall, Jr. Little River, S. C.  
A.B. (Lincoln Memorial), English.

Whelchell, Laura Darwin	Gaffney, S. C.
A.B. (Limestone College), English, Romance Languages.	
White, Frank Dudley	Linden, Va.
A.B. (Randolph-Macon College), Education.	
Whitener, Catherine Viola	Salisbury, N. C.
A.B. (Catawba College), English.	
Whitener, Margaret Virginia	Salisbury, N. C.
B.S. (Catawba College), Education.	
Whitlatch, Lewis Wade	Monongahela, Pa.
B.S. (California State Teachers College), Education, History.	
Whitman, William Tate	Charleston, S. C.
A.B., A.M. (Duke), Economics.	
Wiebel, George Clement	Hagerstown, Md.
A.B. (Lynchburg College), Education.	
Wiggins, Elizabeth Lewis	Holly Hill, S. C.
A.B. (Winthrop College), English.	
Wiggins, James Wilhelm	Dublin, Ga.
B.S. (South Georgia Teachers College), History, Sociology.	
Wilcox, Kathryn Johnson	Clearwater, Fla.
A.B. (John B. Stetson), Education.	
Wilkes, Frances Elizabeth	Adel, Ga.
A.B. (Georgia State Women's College), History, Education.	
Williams, Elizabeth Rose	Iva, S. C.
A.B. (Erskine College), English, Education.	
Williams, James Wesley	Greensboro, N. C.
A.B. (Duke), B.S. (Georgia School of Technology), Political Science.	
Williams, Margaret Lawrene	Memphis, Tenn.
B.S. (Memphis State Teachers College), Education.	
Williams, Olan Yarnall	California, Pa.
B.S. (California State Teachers College), Education, English.	
Williams, Roger Augustus	Abbeville, S. C.
A.B. (Erskine College), Education.	
Williams, Vivian Lois	Kilmichael, Miss.
B.S. (Mississippi Delta State Teachers College), Education.	
Wilson, Elizabeth Andrews	Tampa, Fla.
A.B. (Florida State College for Women), History.	
Wilson, Valda Belle	Fairmont, W. Va.
A.B. (Fairmont State Teachers College), Education.	
Wilson, Virginia Ellen	Waynesburg, Pa.
B.S. (Waynesburg College), Education.	
Wimberly, Rosamonde Ramsay	Spartanburg, S. C.
A.B., A.M. (University of South Carolina), Sociology.	
Winer, Ada Mae	Roscoe, Pa.
B.S. (California State Teachers College), English, Education.	
Winship, Florence Wood	Macon, Ga.
A.B. (Mercer), Education.	
Wollet, Charles Elmer	Statesboro, Ga.
A.B. (Newberry College), Economics.	
Wonder, Craig Earl	Martinsburg, Pa.
A.B. (Juniata College), English.	
Wood, Mary Rose	Jetersville, Va.
B.S. (Farmville State Teachers College), Mathematics, English.	
Woodruff, Carmen Moore	Walnut Grove, Ga.
A.B. (Georgia State Teachers College), Education, English.	
Woodruff, Margaret	Johnson City, Tenn.
B.S. (East Tennessee State Teachers College), Education, History.	

Worley, Claude	Surveyor, W. Va.
A.B. (Concord State Teachers College), Education, Sociology.	
Wylie, Claude	Gap Mills, W. Va.
A.B. (Concord State Teachers College), Education, Sociology.	
Wynn, Lawrence	Milledgeville, Ga.
A.B. (Emory), English.	
Yager, Charles Monroe	Baltimore, Md.
B.S. (University of Maryland), Education.	
Young, Hobart McKinley	Bluefield, W. Va.
A.B. (Concord State Teachers College), Education.	
Young, Mabel Dorothy	Ellwood City, Pa.
A.B. (Geneva College), Education, English.	
Young, William Coleman	Georgetown, S. C.
A.B. (College of Charleston), History.	
Zarfoss, Lewis Harold	Columbia, Pa.
B.S. (Millersville State Teachers College), Education, Economics.	
Zarger, Helen Witherspoon	Marion, Pa.
B.S. (Shippensburg State Teachers College), Education.	
Zimmerman, Carroll Louis	Washington, D. C.
A.B. (Miami), A.M. (Duke), Physics.	
Zimmerman, Edna Elizabeth	Harrisburg, Pa.
B.S. (Shippensburg State Teachers College), Education.	

#### SUMMER OF 1937; SECOND TERM

Barnhardt, Zeb Glenn	Oakboro, N. C.
A.B. (Duke), Education.	
Baseman, Hazel Henrietta	Hutchinson, Minn.
B.Ed. (St. Cloud State Teachers College), Education.	
Batrus, Iva Genevieve	Altoona, Pa.
B.S. (Carnegie Institute of Technology), Education.	
Beuchler, Stanley Charles	Llewellyn, Pa.
A.B. (Gettysburg College), History.	
Blackwell, James Harry	Laurelton, Pa.
B.S., M.Ed. (Pennsylvania State College), Education.	
Bolander, Dorothy	Lancaster, Pa.
B.S. (Millersville State Teachers College), History, Education.	
Bonner, James Neel	Due West, S. C.
A.B. (Erskine College), A.M. (Columbia), Education.	
Buck, Ida Hermine	Altoona, Pa.
A.B. (Catawba College), Education.	
Buckwalter, Kathryn Mary	Lancaster, Pa.
B.S. (Millersville State Teachers College), English.	
Buller, Laura Eshleman	Lancaster, Pa.
B.S. (Millersville State Teachers College), English.	
Butler, Carrie Elizabeth	Montgomery, Ala.
A.B. (Huntingdon College), Education.	
Carson, Louise Geddings	Beaufort, S. C.
A.B. (Winthrop College), Education.	
Chatfield, Carolyn Lucinda	Pleasant View, Ky.
B.S. (Union College), History.	
Countiss, Arthur Allen	Abingdon, Va.
A.B. (Emory and Henry College), Education.	
Cox, Grace Wiseman	Honea Path, S. C.
A.B. (Coker College), Education, History.	
Crandall, Gilbert Albert	Annapolis, Md.
A.B. (St. Johns College), Education.	



Crowe, Frank Chapman	Tampa, Fla.
A.B. (Florida Southern College), Education.	
Daher, Joseph George	Bridgeport, Pa.
B.S. (Juniata College), Education, Mathematics.	
Darden, Robert Bright	Lawrenceville, Va.
A.B. (Randolph-Macon College), Education.	
Dew, Joanna	Tampa, Fla.
A.B. (Florida State College for Women), History.	
Dixon, John Harrison	Church Creek, Md.
A.B. (Western Maryland College), Education.	
Douglass, William Patterson	Iselin, Pa.
B.B.A. (Westminster College), Education.	
Dunbar, Betty Hammond	Augusta, Ga.
A.B. (Converse College), Mathematics, Education.	
Edwards, Allen Braxton	Danville, Ky.
A.B. (Centre College), Economics.	
Eley, Annie Clara	Moss Point, Miss.
A.B. (Judson College), Mathematics.	
Finlay, William	Pittsburgh, Pa.
B.S. (University of Pittsburgh), Economics, Education.	
Finley, Thomas Rothwell	Laurens, S. C.
A.B. (University of South Carolina), History.	
Flanders, Horace Marion, Jr.	Soperton, Ga.
A.B. (University of Georgia), Education.	
Frear, Edgar Paul	Montrose, Pa.
B.S. (Mansfield State Teachers College), Education.	
Fuller, John Herman	Milford, Pa.
B.S. (East Stroudsburg State Teachers College), Education.	
George, Charles William	Shenandoah, Pa.
B.S. (Ursinus College), Physics.	
Gillespie, William Allen	Lynchburg, Va.
A.B. (Lynchburg College), Mathematics.	
Gillingham, Samuel Wilson	Glenside, Pa.
A.B. (Maryville College), Education.	
Gillis, Alma Louise	Wauchula, Fla.
B.S. (Florida State College for Women), Education.	
Godbold, John Jacob	Marion, S. C.
A.B. (University of South Carolina), Education.	
Gray, Lima Jane	Coffeeville, Miss.
A.B. (Mississippi State College for Women), Education.	
Hamblin, Clarissa Wardwell	Lewisburg, Pa.
A.B. (Bucknell), English.	
Hand, Wilson Bowen	Bridgeton, N. J.
B.S. (Rutgers University), B.C.S. (Rider College), Education.	
Harris, Isabella Deas	Cordele, Ga.
A.B. (Wesleyan College), A.M. (Duke), English.	
Haynie, Mary Elizabeth	Belton, S. C.
A.B. (Winthrop College), Education.	
Hendren, Albert Lee	Charlotte Court House, Va.
A.B. (Duke), Mathematics.	
Hernick, Michael Edward	Brandywine, Md.
A.B. (Western Maryland College), Education.	
Hill, Robert Brandon	Beaver Falls, Pa.
B.S. (Grove City College), Education.	
Hollinger, Lester Stoner	Manheim, Pa.
B.S. (Millersville State Teachers College), Education.	



- Holton, Thomas Alfred  
A.B. (Duke), Education. Miami, Fla.
- Horton, Benjamin Tyler  
A.B. (Carson-Newman College), History. Duffield, Va.
- Howell, Thelma  
A.B., A.M. (Duke), Zoology. Macon, Ga.
- Hughes, John David  
B.S. (Lebanon Valley College), Education. Catawissa, Pa.
- Hunt, Melba Cleo  
A.B. (Meredith College), Zoology. Apex, N. C.
- Jacks, William LeRoy  
B.S. (Lebanon Valley College), Zoology. Hummelston, Pa.
- Kennedy, Vincent Morris  
B.S., LL.B. (Duquesne), Education. Jeannette, Pa.
- Kidd, Rex Charles  
B.S. (East Tennessee State Teachers College), Mathematics, Education. Maryville, Tenn.
- Kinder, Erma Lynnwood  
B.S. (East Radford State Teachers College), Education. Radford, Va.
- Kramer, Miriam Loretta  
A.B. (Wilson College), Economics. Collingswood, N. J.
- Kuykendall, Susan Parsons  
A.B. (West Virginia), Education. Romney, W. Va.
- Lacey, Mary Frances  
A.B. (Mississippi State College for Women), History. Kosciusko, Miss.
- Landis, Arline Naomi  
B.S. (Millersville State Teachers College), Education. Lancaster, Pa.
- Lea, Jenny Lovell  
A.B. (University of Chattanooga), History. Chattanooga, Tenn.
- Leach, James Michael  
B.S. (University of Pittsburgh), Education. South Fork, Pa.
- Light, Merritt Mette  
B.S. (Mansfield State Teachers College), Education. Rush, Pa.
- Lipscomb, Arthur McLaurine, Jr.  
A.B. (Virginia Military Institute), English. Richmond, Va.
- Long, Hazel Amanda  
A.B. (Georgia State College for Women), Education. Bremen, Ga.
- Looney, Annie Warren  
A.B. (Bethel College), Education. Paris, Tenn.
- Lynch, Clyde Clifford  
B.S. (Lock Haven State Teachers College), A.M. Port Allegany, Pa.  
(Columbia), Education.
- McAllister, Birdie  
A.B. (University of Georgia), Botany. Miami, Fla.
- McCormac, Duncan Leon  
A.B., A.M. (University of South Carolina), Education. Columbia, S. C.
- McCullough, Raymond Oliver, Jr.  
B.S. (Washington College), Education. Friendsville, Md.
- McGraw, Naomi Irene  
A.B. (Marshall College), Mathematics, Education. Green Sulphur Springs, W. Va.
- Matchett, Ruth  
B.S. (Glassboro State Teachers College), Economics, Education. Moorestown, N. J.
- Mitchim, Louise Whitley  
B.S. (Mississippi Delta State Teachers College), English. Ruleville, Miss.
- Morgan, Evelyn Verna  
A.B. (New Jersey College for Women), History, Education. Cranford, N. J.
- Noll, Robert Roscoe  
B.S. (Pennsylvania State College), Education, History. Llewellyn, Pa.

Norton, Oswald Ailsworth	Deltaville, Va.
A.B. (Marshall College), Zoology.	
Obel, Arthur Anthony	Throop, Pa.
B.S. (St. Thomas College), M.S. (University of Alabama), Education.	
O'Brian, William Hawkins	Oxford, N. C.
A.B. (Wake Forest College), History.	
Pool, Gladys Cooper	Leacock, Pa.
B.S. (Millersville State Teachers College), History, Education.	
Powell, Woodrow Wilson	Register, Ga.
B.S. (South Georgia Teachers College), History, English.	
Pratt, George Thomas	Queenstown, Md.
A.B. (Washington College), History, Education.	
Ross, George Robert	Library, Pa.
A.B. (Grove City College), Education.	
Ross, Mary Elizabeth	Library, Pa.
B.S. (University of Pittsburgh), Education.	
Rossell, Margaret Irving	Charleston, S. C.
A.B. (University of New Hampshire), English.	
Rothaar, Frendly Kathryn	Library, Pa.
B.M. (Grove City College), Education.	
Saez, Mercedes Angeles	Santurce, Puerto Rico
A.B. (Temple), A.M. (University of Puerto Rico), English.	
Sherry, John Joseph	Mahanoy City, Pa.
B.S. (Temple), Education.	
Shoemaker, Katherine Elizabeth	Harrisburg, Pa.
B.S. (Shippensburg State Teachers College), History, English.	
Shull, Paul Eugene	Lewistown, Pa.
B.S. (Shippensburg State Teachers College), Education.	
Simon, John Anthony	Braddock, Pa.
B.S. (Waynesburg College), Education.	
Slacum, Emerson Phillips	Cambridge, Md.
B.S. (Washington College), Education.	
Sleighter, Martha Beryl	Shippensburg, Pa.
B.S. (Shippensburg State Teachers College), History, English.	
Slone, Alice Lee	Mascotte, Fla.
B.S. (Florida State College for Women), Education.	
Smith, Malcolm Leo	Bluefield, W. Va.
A.B. (Concord State Teachers College), Education.	
Snader, Levi Hummer	Wyalusing, Pa.
B.S. (Albright College), Education.	
Snellgrove, Harold Sinclair	Meridian, Miss.
A.B. (Duke), History.	
Snyder, Anna Jane	Huntingdon, Pa.
A.B. (Juniata College), English.	
Snyder, Donald Francis	Mohrsville, Pa.
B.S. (East Stroudsburg State Teachers College), Education.	
Stanford, Herman Tyndall	Oxford, Ala.
B.S., A.M. (University of Alabama), Education.	
Stanford, Terrell Pace	Oxford, Ala.
B.S. (University of Alabama), Education.	
Sterling, Susan Elizabeth	Roselle, N. J.
B.S. (New York), History, Education.	
Stout, June Thompson	Coraopolis, Pa.
B.S. (Carnegie Institute of Technology), Education.	
Strom, Samuel Thaddeus	Ward, S. C.
A.B. (Furman), Education, English.	

Stypkoski, Peter Paul	Braddock, Pa.
A.B. (Waynesburg College), Education.	
Tate, Rachel Clara	Sumner, Miss.
B.S. (Mississippi Delta State Teachers College), Education.	
Thompson, Ethel Mae	New Brighton, Pa.
A.B. (Geneva College), Education.	
Trimble, William Ellwood	Kingston, Pa.
B.S. (West Chester State Teachers College), Education.	
Upshaw, Margaret Adeline	Asheville, N. C.
A.B. (University of Tennessee), History, English.	
Walker, James Herbert	Sumner, Miss.
B.S. (Mississippi Delta State Teachers College), Education.	
Watson, Emily Montael	Carrollton, Miss.
B.S. (Mississippi Delta State Teachers College), Education.	
Weir, John Blackwood	Moosic, Pa.
B.S. (West Chester State Teachers College), Economics.	
Wilhite, Arthur Bolton	Lake Placid, Fla.
A.B. (Erskine College), Education.	
Williams, Charlet Smith	Indiana, Pa.
B.S. (University of Pittsburgh), Economics.	
Williams, Claire Louise	Jacksonville, Fla.
A.B. (Florida State College for Women), Education.	
Williams, Pennie	Brunson, S. C.
A.B. (Newberry College), Education.	
Wilson, Joseph Bobula	Central City, Pa.
B.S. (Juniata College), Education, History.	
Winn, Mary Ruth	Lawrenceville, Va.
B.S. (Farmville State Teachers College), Economics.	
Wolfe, Quentin Donald	Pittsfield, Pa.
B.S. (Lock Haven State Teachers College), Economics.	
Worley, William Carson	Jacobus, Pa.
A.B. (Gettysburg College), Education.	
Yost, Merrill Clifford	Tamaqua, Pa.
B.S. (Gettysburg College), Education.	
Young, Leslie Clarence	Hagerstown, Md.
A.B. (Lynchburg College), Education, History.	
Yowell, Robert William	Peola Mills, Va.
B.S. (University of Richmond), Education.	

#### SUMMER OF 1937; THIRD TERM

Aarons, Isadore Alfred	Savannah, Ga.
B.S. (University of Chicago), Education.	
Adams, William Marvin	Ackerman, Miss.
A.B. (Mississippi College), Education, History.	
Allaben, Sara	Thomson, Ga.
A.B. (Georgia State College for Women), Romance Languages.	
Anderson, Marcia Lee	Durham, N. C.
A.B. (Bryn Mawr College), A.M. (Duke), English.	
Arnold, Mary Elva	Groveland, Fla.
A.B. (Rollins College), Education.	
Bealle, John Wynne	Sardis, Miss.
B.S. (Millsaps College), Education, Economics.	
Beam, Joshua Paul	Gaffney, S. C.
A.B. (Furman), Education.	
Berry, Diltz North	Syracuse, N. Y.
B.S. (Syracuse), Education.	

Bird, Imogen A.B. (Mary Baldwin College), Education.	Washington, D. C.
Birriolo, Francis Adrian B.S. (Mansfield State Teachers College), English,	Blossburg, Pa. Education.
Boatwright, Eleanor Miot B.S. (Columbia), History, Sociology.	Augusta, Ga.
Bogges, William Randolph A.B. (Concord State Teachers College), Botany.	Oakvale, W. Va.
Bondurant, Agnes Meredith B.S. (Farmville State Teachers College), English.	Rice, Va.
Boswell, Albert Sidney B.S. (South Georgia Teachers College), Education.	Brunswick, Ga.
Bramlette, Nancy Lucile A.B. (Winthrop College), English, Education.	Greenville, S. C.
Bridges, Daniel Moody A.B. (Wake Forest College), Education.	Rutherfordton, N. C.
Burgess, John Evans A.B. (Emory), History, Education.	Ashburn, Ga.
Burton, Anne Seixas MacGlashan A.B. (Hollins College), English.	Stoneville, N. C.
Butler, Allen Dexter A.B., A.M. (University of North Carolina), English.	Liberty, N. C.
Butler, Carrie Elizabeth A.B. (Huntingdon College), Education.	Montgomery, Ala.
Butts, Virginia Frye A.B. (West Virginia), English.	Harper's Ferry, W. Va.
Byrd, Roy David A.B. (Glenville State Teachers College), Education.	Falling Rock, W. Va.
Caldwell, Jonathan Quarmby A.B. (University of Florida), History.	DeLand, Fla.
Campbell, Carrie Margaret Smith A.B. (Marshall College), Education.	Kenova, W. Va.
Campbell, Robert Earle A.B. (Marshall College), Education.	Summersville, W. Va.
Carney, James Joseph, Jr. A.B., A.M. (Harvard), Economics.	W. Somerville, Mass.
Carruth, James Walton B.S. (South Georgia Teachers College), Education.	Collegeboro, Ga.
Carson, Mae Jones A.B. (Greenville Woman's College of Furman University), History, Education.	Gaffney, S. C.
Cassell, Hugh Kent B.S. (Mercer), Education, Economics.	Big Stone Gap, Va.
Casto, Margaret Atkinson A.B. (Marshall College), Education, Mathematics.	Huntington, W. Va.
Chapman, Martha Gertrude B.S. (Florida State College for Women), A.M. (George Peabody College for Teachers), English.	Winter Garden, Fla.
Charlton, Harriette Virginia A.B. (Concord State Teachers College), English.	Matooka, W. Va.
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| B.S. (Middlebury College), Sociology.   |                       |

Wall, Franklin Lafayette Brinsfield	Decatur, Ga.
A.B. (Oglethorpe), Education.	
Wallin, Virginia Stanton	Wilmington, Del.
A.B. (University of Delaware), Education.	
Walsh, Anastasia	Charleston, S. C.
B.S. (College of Charleston), English.	
Walters, Eleanor Boyd	Gunnison, Miss.
B.S. (Mississippi Delta State Teachers College),	Mathematics, Education.
Weldon, William Heathley	Abbeville, S. C.
A.B. (Presbyterian College), Education.	
Westmoreland, Aliceteen	Thomasville, N. C.
A.B. (Woman's College of the University of North	Carolina), Psychology.
Wetmore, Thomas Hall, Jr.	Little River, S. C.
A.B. (Lincoln Memorial), English.	
Whelchell, Laura Darwin	Gaffney, S. C.
A.B. (Limestone College), English.	
White, Frank Dudley	Linden, Va.
A.B. (Randolph-Macon College), Education.	
Whiting, Maysel	Spencer, W. Va.
A.B. (Glenville State Teachers College), Education.	
Wilder, Robert Perry	Clinton, S. C.
B.S. (Furman), Economics.	
Wilkes, Frances Elizabeth	Adel, Ga.
A.B. (Georgia State Women's College at Valdosta),	History.
Williams, Elisabath Rose	Iva, S. C.
A.B. (Erskine College), English.	
Williams, Louis Gressett	Milton, W. Va.
A.B. (Marshall College), Botany.	
Williams, Olan Yarnall	California, Pa.
B.S. (California State Teachers College), Education,	English.
Williams, Roger Augustus	Abbeville, S. C.
A.B. (Erskine College), Education.	
Wilson, Elizabeth Andrews	Tampa, Fla.
A.B. (Florida State College for Women), History.	
Witty, Ruth Winifred	Mineola, N. Y.
A.B. (Mount Holyoke College), Education.	
Wonder, Craig Earl	Martinsburg, Pa.
A.B. (Juniata College), Romance Languages.	
Young, William Coleman	Georgetown, S. C.
A.B. (College of Charleston), History.	
Zimmerman, Carroll Louis	Washington, D. C.
A.B. (Miami), A.M. (Duke), Physics.	

## JUNALUSKA SUMMER SCHOOL OF 1937

Arant, Martha Erress	Milton, Fla.
B.S. (Florida State College for Women), Botany.	
Gier, Leland Jacob	Buies Creek, N. C.
B.S., M.S. (Kansas State Teachers College), Botany.	
Hagaman, Jake George	Boone, N. C.
B.S. (Appalachian State Teachers College), Botany.	
Huntley, Dorothy Bell	Ruby, S. C.
A.B. (Queens-Chicora College), Botany.	
Singletary, Mary Leora	Kissimmee, Fla.
B.S. (Florida State College for Women), Botany.	
Stevenson, Bernard Henry	Waynesboro, Ga.
B.S. (University of South Carolina), Botany.	

Tanner, Martha Malinda	Chesnee, S. C.
A.B. (Winthrop College), Botany.	
Williams, Louis Gressett	Milton, W. Va.
A.B. (Marshall College), Botany.	
Wright, Audrey Adele	Louisville, Ky.
B.S. (University of Louisville), Botany.	

## THE SCHOOL OF LAW

## FIRST YEAR

Adams, Margaret Louise	Esterly, Pa.
Duke University, 1934-37.	
Andrus, William Santee	Los Angeles, Calif.
A.B., Occidental College, 1936.	
Arnold, Herman Ross, Jr.	Athens, Tenn.
B.A., Furman University, 1937.	
Ballance, L. Charles	Paw Paw, Mich.
Western State Teachers College, 1932-33; A.B., University of Michigan, 1937.	
Beattie, Frank John	New London, O.
A.B., Oberlin College, 1931.	
Campbell, Anthony Theodore	West Tisbury, Mass.
B.A., University of New Hampshire, 1936.	
Colson, James Thomas	Brunswick, Ga.
Duke University, 1934-37.	
Daniels, George Neil	Elkins, W. Va.
B.S., Davis and Elkins College, 1932.	
Foster, Elliott Orman, Jr.	Millbury, Mass.
Lehigh University, 1933-35; A.B. Bates College, 1937.	
Garber, Murray Roger	Bradford, Pa.
Duke University, 1934-37.	
Gottlieb, Irvin Malvern	Washington, D. C.
B.S., Georgetown University, 1931; American University, 1935-36.	
Gracey, Hugh Catron	Franklin, Tenn.
B.S., Davidson College, 1937.	
Harris, Roger Kennedy	Newport, Ark.
A.B., Duke University, 1937.	
Hassel, Merrill Lynnwood	Bart, Pa.
Millersville State Teachers College, 1934-35; Duke University, 1935-37.	
Hathaway, James Winslow	Stone Lake, Wis.
A.B., Dartmouth College, 1937.	
Hayes, Johnson Jay, Jr.	Greensboro, N. C.
B.A., Wake Forest College, 1937.	
Hayward, Doris Virginia	Delanco, N. J.
Duke University, 1934-37.	
Hovey, George Dunmore	Lenoir, N. C.
B.S., Lafayette College, 1937.	
Hubbell, Robert Bolles	Washington, D. C.
Emory University, 1934-35; Duke University, 1935-37.	
Josephs, Alex Rustin	Charlotte, N. C.
Centre College, 1934-35; Duke University, 1935-37.	
Keene, Spotswood Hughes	Ashland, Va.
Randolph-Macon College, 1933-35; Emory University, 1935-36; A.B., Randolph-Macon College, 1937.	
Klein, Joseph	Chicago, Ill.
Northwestern University, first semester, 1933-34; Wright Junior College, 1934-35; Northwestern University, 1935-37.	

- Koop, Charles Thomas  
Duke University, 1934-37. Islip, N. Y.
- Laufer, Joseph  
Karls Gymnasium, 1925-27; University of Berlin, 1927-28; University of Heidelberg, 1928-29; University of Tübingen, 1929-31. Stuttgart, Germany
- Linscott, Charles Norris  
Northwestern University, 1933-37. Rockford, Ill.
- Little, James Crawford  
Duke University, 1934-37. Raleigh, N. C.
- McCoy, John Oliver  
Duke University, 1934-37. Glen Jean, W. Va.
- Malmquist, Tord Vincent  
A.B., Marshall College, 1937. Huntington, W. Va.
- Missal, Harold Milton  
University of Rochester, 1930-31; Ph.B., Dickinson College, 1935. Bristol, Conn.
- Moore, John Shelby  
A.B., Duke University, 1937. Clarksburg, W. Va.
- Murray, George Charles  
A.B., Holy Cross College, 1933; Harvard University School of Law, first semester, 1934-35. Brighton, Mass.
- Oehmig, Von Daniel  
A.B., Dartmouth College, 1936. Chattanooga, Tenn.
- Onsgard, Henry Adolph  
B.A., University of Wichita, 1937. Wichita, Kan.
- Pope, Harrell  
Campbell College, 1934-35; Duke University, 1935-37. Dunn, N. C.
- Poyner, James Marion  
B.S., North Carolina State College of Agriculture and Engineering, 1935; M.S., North Carolina State College of Agriculture and Engineering, 1937. Raleigh, N. C.
- Raub, Benjamin Dimmick, Jr.  
A.B., Lafayette College, 1937. Easton, Pa.
- Rouzer, Elmer Ellsworth  
Duke University, 1934-37. Hagerstown, Md.
- Sanderson, Thomas Jess  
Carleton College, 1932-34; B.S., University of Wisconsin, 1937; University of Wisconsin School of Law, summer, 1937. Portage, Wis.
- Satterfield, Frank Griffin, Jr.  
A.B., Duke University, 1937. Durham, N. C.
- Shehan, William Mason, Jr.  
A.B., Duke University, 1937. Easton, Md.
- Shepard, James Schumann  
A.B., Wabash College, 1937. Columbia City, Ind.
- Slicer, Charles Wharton  
A.B., Marshall College, 1936. Huntington, W. Va.
- Smith, Gibson Locke  
A.B., Davidson College, 1937. Charlotte, N. C.
- Stone, Russell DeLeon  
Duke University, 1934-37. Wilmington, N. C.
- Tunnell, Robert White  
Princeton University, 1932-33, first semester, 1933-34; A.B., Muskingum College, 1937. Georgetown, Del.
- Turner, Charles Fletcher  
Duke University, 1934-37. Birmingham, Ala.
- Vandenburgh, Edward Clinton, III  
B.S., Iowa State College of Agriculture and Mechanic Arts, 1937. Sioux City, Ia.
- Wanless, Julian Thor  
A.B., DePauw University, 1937; University of Colorado, summers, 1933, 1934, 1936. Springfield, Ill.

- Weinstein, Maurice Aaron  
University of Maryland, 1934-35; Duke University, 1935-37. Salem, N. J.
- Welfare, Bradley Lamar, Jr.  
A.B., Duke University, 1937. Winston-Salem, N. C.
- Wilson, Thomas, III  
A.B., University of North Carolina, 1937. Charleston, S. C.
- Yarborough, Donald Victor  
Texas Technological College, 1929-30; B.B.A., University of Texas, 1933; University of Southern California School of Law, summer, 1937. Chandler, Tex.

## SECOND YEAR

- Arnold, Hubert Kennard  
A.B., University of Maryland, 1935; Georgetown University School of Law, 1935-37. Hyattsville, Md.
- Betts, Willard Furman, Jr.  
A.B., University of North Carolina, 1936. Raleigh, N. C.
- Blackburn, James William, Jr.  
Western Kentucky State Teachers College, 1931-1934; George Washington University School of Law, 1934-35; first semester, 1935-36; second semester, 1936-37. Bowling Green, Ky.
- Bogue, Robert William  
Leland Stanford University, 1932-33; University of South Dakota, 1933-35; B.A., University of Wisconsin, 1936. Parker, S. D.
- Bomar, Fleming Brown  
A.B., Wofford College, 1936. Spartanburg, S. C.
- Burwell, George Allen  
A.B., Duke University, 1937. Warrenton, N. C.
- Carden, Russell Campbell  
A.B., Duke University, 1937. Chattanooga, Tenn.
- Cooley, Edward William  
A.B., Duke University, 1936. Wheeling, W. Va.
- Deneen, Russell Sanders  
A.B., Duke University, 1937. Bakersville, N. C.
- Desvernine, Eugene  
A.B., Duke University, 1937. Buen Retiro, Marianao, Havana, Cuba
- Forsythe, John Samuel  
Geneva College, 1933-36. Rocky Mount, Va.
- Gibbs, Charles Haskell  
A.B., College of Charleston, 1936. Charleston, S. C.
- Green, John Oliver  
Mars Hill College, 1932-34; B.A., University of Richmond, 1936. Nathalie, Va.
- Green, Martin Klapp  
A.B., Duke University, 1932. Raleigh, N. C.
- Griffith, Erma Ellen  
A.B., Duke University, 1937. Lebanon, Va.
- Hoffman, John Edward  
A.B., Duke University, 1937. Fort Wayne, Ind.
- Knapp, James Edward  
A.B., Duke University, 1937. Irasburg, Vt.
- Lowe, James Russell  
A.B., Duke University, 1936. Elon College, N. C.
- Mann, Oliver DeWitt  
A.B., Duke University, 1936. Whitakers, N. C.
- Margraf, Gustav Benhart  
A.B., Southeast Missouri State Teachers College, 1936. Cape Girardeau, Mo.
- Maxwell, Lytton Ethridge  
A.B., Duke University, 1936. Pink Hill, N. C.
- Meyerson, Stanley Phillip  
Georgia School of Technology, 1933-34; A.B., Duke University, 1937. Spartanburg, S. C.

Moose, William Lewis, III	Little Rock, Ark.
Hendrix College, 1932-34; University of Virginia, 1934-35; B.A., Hendrix College, 1936.	
Morrah, Patrick Bradley, Jr.	Greenville, S. C.
A.B., The Citadel, 1936.	
Oakes, John Campbell	Johnson City, Tenn.
B.S., State Teachers College, of Tennessee, 1936.	
Page, Hugh Alexander, Jr.	Clayton, N. C.
Duke University, 1932-36.	
Penabaz, Fernando J.	Jobabo, Oriente, Cuba
Duke University, 1933-36.	
Powell, Rufus Heflin, III	Durham, N. C.
A.B., Duke University, 1936.	
Reid, Edwin Kitchen	Albany, Ga.
A.B., Syracuse University, 1936.	
Renner, Charles Victor	Parkersburg, W. Va.
A.B., Marietta College, 1936.	
Sanders, Richard Tatum	Sherman, Tex.
Austin College, 1931-32; A.B., Baylor University, 1935.	
Tomlinson, Benson Cahoon	Fornfelt, Mo.
Southeast Missouri State Teachers College, 1933-36.	
Turlington, David James, Jr.	Clinton, N. C.
Duke University, 1933-36.	
Womble, William Fletcher	Winston-Salem, N. C.
A.B., Duke University, 1937.	

## THIRD YEAR

Bulleit, Edward Banister	Gettysburg, Pa.
A.B., Gettysburg College, 1935.	
Butterfield, Thomas Edward, Jr.	Bethlehem, Pa.
A.B., Lehigh University, 1935.	
Cady, Frederick Clayson	Syracuse, N. Y.
A.B., Duke University, 1936.	
Cann, Richard McDonald	Greensboro, N. C.
Davidson College, 1932-34; A.B., Duke University, 1936.	
Cleveland, Theron Clair, Jr.	Greenville, S. C.
A.B., Duke University, 1935.	
Hill, Harry Weller	Williamson, W. Va.
University of Alabama, 1932-33; Marshall College, 1933-35.	
Holmes, John Sharp	Yazoo City, Miss.
B.A., Millsaps College, 1936; University of Texas, School of Law, 1936-37.	
Lewis, William Allen	Durham, N. C.
A.B., Duke University, 1936.	
Littell, Duane Oliver	Beaver Falls, Pa.
B.A., Geneva College, 1934.	
Lundgren, Carl Raymond	New Haven, Conn.
A.B., Duke University, 1933.	
Marks, Morris Steinberg	Augusta, Ga.
A.B., Duke University, 1935.	
Matthews, John Frederick	Louisburg, N. C.
Wake Forest College, 1930-33.	
Newsom, James Long	Durham, N. C.
Institut Sillig, Switzerland, 1930-31; A.B., Duke University, 1935; Syracuse University, College of Law, 1935-37.	
Sapp, James Everett, Jr.	Albany, Ga.
A.B., Duke University, 1935.	



Sears, Howard Jones A.B., University of the South, 1935.	Chattanooga, Tenn.
Spencer, Harold Winston A.B., Lafayette College, 1935.	Willow Grove, Pa.
Stuart, Carmon Jackson B.S., Appalachian State Teachers College, 1935.	Jefferson, N. C.
Warren, Charles Ransome, Jr. A.B., Duke University, 1936.	Chatham, Va.
Wyman, Paul B. Kalamazoo College, 1932-35.	Kalamazoo, Mich.
Young, Charles Holt A.B., Duke University, 1935.	Raleigh, N. C.

## GRADUATE STUDENT

Barnes, Henry Searcy B.S., North Georgia Agricultural College, 1920; LL.B., Atlanta Law School, 1923; A.B., Mercer University, 1928; LL.B., Mercer University, 1928; M.A., Mercer University, 1933.	Franklin, Ga.
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## UNCLASSIFIED STUDENTS

Flora, William Sherlock B.A., Wooster College, 1935; Duke University, 1936-37.	Canton, O.
Holleman, Robert Dunn B.A., Wake Forest College, 1934; LL.B., Wake Forest School of Law, 1936.	Durham, N. C.
Munster, Ralf F. W. A.B., Duke University, 1937.	Savannah, Ga.

## THE SCHOOL OF MEDICINE

## FIRST YEAR

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Ellis Wentworth Adams..... <i>University of Michigan; Michigan State College.</i>	Ypsilanti, Mich.....	Duke University, House B.
Richard Haight Ames..... <i>Haverford College.</i>	Hagerstown, Md.....	Duke Hospital.
Elizabeth Dodson Anderson..... <i>Barnard College.</i>	Litchfield, Conn.....	1008 Green St., Durham, N. C.
Kenward Oliver Babcock..... <i>San Mateo Jr. College; Stanford University.</i>	Ontario, Calif.....	Duke University, House A.
Gareth Bonsack Barnes..... <i>Antioch College; Bridgewater College.</i>	Elgin, Ill.....	Duke University, House B.
Ralph Etheridge Baum..... <i>Duke University.</i>	Kitty Hawk, N. C.....	Duke University, House C.
Steven I. Bednarz..... <i>Rutgers University.</i>	Wilmington, N. J.....	810 Second St., Durham, N. C.
Edward Perry Benbow, Jr..... <i>Guilford College; University of North Carolina.</i>	Greensboro, N. C.....	Duke University, House B.
Emil Charles Beyer..... <i>Duke University.</i>	White Plains, N. Y.....	Duke University, House T.
Edwin Wells Brown..... <i>Biltmore College; Duke University.</i>	Asheville, N. C.....	Duke University, House A.
James Walter Brown, Jr..... <i>Duke University.</i>	Gatesville, N. C.....	Duke University, House D.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Kenneth Brien Brown..... <i>Franklin and Marshall College.</i>	Montclair, N. J.....	Duke University, House B.
Woodrow William Burgess..... <i>Duke University.</i>	Royal Oak, Mich.....	2204 Englewood Ave., Durham, N. C.
Joseph Kalil David, Jr..... <i>University of Florida; Duke University.</i>	Jacksonville, Fla.....	Duke University, House B.
J. Harold Donaldson, Jr..... <i>Marshall College.</i>	Huntington, West Va.....	Duke University, House B.
Frederick Duncan Elliott..... <i>Dickinson College.</i>	Coudersport, Pa.....	Medical School.
John Ernest Emmett..... <i>Lafayette College.</i>	New York City.....	1120 Main St., Durham, N. C.
William Allen Exum..... <i>Davidson College; Duke University.</i>	Snow Hill, N. C.....	Duke University, House V.
Paul T. Forth..... <i>University of Michigan.</i>	Rochester, N. Y.....	Duke University, House B.
James S. Gilliam, Jr..... <i>University of North Carolina.</i>	Elon College, N. C.....	Duke University, House B.
Heary Boone Grant..... <i>University of North Carolina.</i>	Garysburg, N. C.....	Duke University, House B.
Briant Bowman Guerin..... <i>Morris County Junior College; Duke University.</i>	Mendham, N. J.....	Duke Hospital.
Hubert B. Haywood, Jr..... <i>University of North Carolina.</i>	Raleigh, N. C.....	108 Buchanan Road, Durham, N. C.
Donald Vincent Hirst..... <i>Duke University.</i>	Durham, N. C.....	1507 Duke University Road, Durham, N. C.
Charles William Hock..... <i>Bluefield College; Duke University.</i>	Bluefield, West Va.....	Duke University, House A.
James Weston Hodges..... <i>North Carolina State; East Carolina Teachers' College.</i>	Greenville, N. C.....	1515 W. Pettigrew St., Durham, N. C.
William Nolen Horsley..... <i>Duke University.</i>	Belmont, N. C.....	Duke University, House A.
Richard Carroll Irving..... <i>Muskingum College.</i>	Conneaut, Ohio.....	1000 Lamond Ave., Durham, N. C.
Stanley Karansky..... <i>Columbia University.</i>	Brooklyn, N. Y.....	1021 Gloria Ave., Durham, N. C.
William Hummel Karmany..... <i>Gettysburg College; The Johns Hopkins University School of Hygiene &amp; Public Health.</i>	Hummelstown, Pa.....	Duke University, House A.
William Baugher Kintzing..... <i>Dickinson College.</i>	Hanover, Pa.....	Medical School.
Glenn Augustus Kiser..... <i>University of North Carolina.</i>	Bessemer City, N. C.....	Duke University, House B.
Tarcila Laperal..... <i>University of Philippines; University of Santo Tomas; Rollins College.</i>	Manila, P. I.....	Trudeau Sanatorium, Trudeau, N. Y.
Frank Rambo Mann..... <i>University of Georgia.</i>	McRae, Ga.....	2413 Club Blvd., Durham, N. C.
Archibald Graham McIlwaine Martin, III..... <i>Randolph-Macon College; S. S., North Carolina State College; S. S., University of North Carolina.</i>	Suffolk, Va.....	Duke Hospital.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Rudolph Powers McCulloch.....	Ypsilanti, Mich.....	Duke University, House B.
<i>Michigan State Normal.</i>		
Oscar Lee McFadyen, Jr.....	Fayetteville, N. C.....	Duke University, House A.
<i>Duke University;</i> <i>Wake Forest College.</i>		
Addison Lee Messer.....	Tallahassee, Fla.....	Duke University, House C.
<i>University of Florida.</i>		
Muriel Meyers.....	Pittsburgh, Pa.....	305 Faculty Apartments, Durham, N. C.
<i>Hood College.</i>		
Leon Howard Mims, Jr.....	Florence, S. C.....	Duke Hospital.
<i>The Citadel;</i> <i>University of South Carolina.</i>		
Edwin Hastings Mulford, II.....	Little Falls, N. Y.....	Duke University, House B.
<i>Duke University;</i> <i>S. S., Cornell University.</i>		
Jesse Phillip Muse.....	Savannah, Ga.....	918 Lamond Ave., Durham, N. C.
<i>Duke University.</i>		
Robert Gleave Neill.....	Bakersfield, Calif.....	Duke Hospital.
<i>Bakersfield Jr. College;</i> <i>University of California.</i>		
Orland Maynard Newman.....	Salisbury, N. C.....	Duke University, House C.
<i>Catawba College.</i>		
Olin Charles Perryman, Jr.....	Winston-Salem, N. C.....	1004 Urban Ave., Durham, N. C.
<i>University of North Carolina.</i>		
Arnold Zachary Pfeffer.....	New York City.....	2122 Myrtle Drive, Durham, N. C.
<i>City College of New York;</i> <i>University of Maryland.</i>		
Kenneth Arther Podger.....	Kenmore, N. Y.....	Duke Hospital.
<i>Duke University.</i>		
Millard Pinson Quillian.....	Bradenton, Fla.....	Duke Hospital.
<i>University of Florida;</i> <i>Western State Teachers College.</i>		
William Joseph Riley.....	Orange, N. J.....	Duke University, House B.
<i>Rutgers University.</i>		
Mila Elisabeth Rindge.....	Madison, Conn.....	203 Faculty Apartments.
<i>Connecticut College for Women.</i>		
Eric Dutton Savage.....	New York City.....	601 S. Duke St., Durham, N. C.
<i>Harvard University.</i>		
John Green Scott, Jr.....	Tamaqua, Pa.....	Duke University, House C.
<i>Duke University;</i> <i>S. S., University of Pittsburgh.</i>		
William Harrison Sellers.....	Anniston, Ala.....	1013 Monmouth Ave., Durham, N. C.
<i>Alabama Polytechnic Institute;</i> <i>Duke University.</i>		
Gardner Ford Smart.....	Troy, Ala.....	Duke Hospital.
<i>Duke University.</i>		
Paul Delaine Snedegar.....	Elkins, West Va.....	Duke University, House B.
<i>Davis and Elkins College;</i> <i>S. S., University of Michigan.</i>		
David Rodney Stack, Jr.....	Charleston, S. C.....	Duke Hospital.
<i>Wofford College.</i>		
Charles Clarence Stauffer.....	Washington, D. C.....	Duke University, House C.
<i>Duke University.</i>		
Gordon Conover Stenhouse.....	Mt. Vernon, N. Y.....	Duke University, House B.
<i>New York University;</i> <i>University of North Carolina.</i>		
Richard McCulloch Taliaferro....	Columbia, S. C.....	Duke Hospital.
<i>Duke University.</i>		

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
William Gilmore Thompson..... <i>Duke University.</i>	Portland, Me.....	814 E. Forest Hills Blvd., Durham, N. C.
George Tudor Thornhill, Jr..... <i>Duke University.</i>	Bluefield, W. Va.....	1013 Monmouth Ave., Durham, N. C.
Raymond Perle Thornhill..... <i>University of Idaho.</i>	Kellogg, Idaho.....	1000 Lamond Ave., Durham, N. C.
Lloyd Flintom Timberlake..... <i>Duke University;</i> <i>S. S., University of South Carolina.</i>	Columbia, S. C.....	1013 Monmouth Ave., Durham, N. C.
James McKnight Timmons..... <i>Duke University;</i> <i>University of South Carolina.</i>	Columbia, S. C.....	Duke Hospital.
Philip Cocke Trout..... <i>University of Virginia.</i>	Roanoke, Va.....	Duke University, House A.
Henry Lewis Valk..... <i>University of North Carolina;</i> <i>University of Pennsylvania.</i>	Winston-Salem, N. C.....	108 Buchanan Road, Durham, N. C.
Don James Weekes..... <i>Fresno State Teachers College;</i> <i>Stanford University.</i>	Fresno, Calif.....	1025 Monmouth Ave., Durham, N. C.
Walter LeRoy Widmark..... <i>Duke University.</i>	Verona, N. J.....	Duke Hospital.
Thomas Wilfred Wills..... <i>Harvard University;</i> <i>Stanford University.</i>	San Diego, Calif.....	Duke Hospital
Prentiss Willson, Jr..... <i>George Washington University;</i> <i>Pennsylvania State College.</i>	Washington, D. C.....	Duke University, House A.
George Ashby Winstead..... <i>Wake Forest College.</i>	Rocky Mount, N. C.....	Duke University, House B.

## SECOND YEAR

Norman LaRue Anderson..... <i>Duke University.</i>	Durham, N. C.....	Duke Hospital.
Frederick Henry Andrus..... <i>Akron University;</i> <i>Duke University.</i>	Durham, N. C.....	Duke University, House A.
Waldo Otis Badgley..... <i>General Motors Institute of Technology;</i> <i>Michigan State College.</i>	East Lansing, Mich.....	1005 N. Duke St., Durham, N. C.
Fred Nelson Baeder..... <i>Duke University.</i>	Nutley, N. J.....	Duke Hospital.
Oliver Jerome Bateman, Jr..... <i>Duke University.</i>	Byron, Ga.....	Duke University, House D.
William Hegley Bonser..... <i>Yale University.</i>	Toledo, Ohio.....	819 Third St., Durham, N. C.
Ivan Willard Brown, Jr..... <i>University of Rochester.</i>	Newfane, N. Y.....	Duke Hospital.
R. Brown..... <i>Rollins College.</i>	Beatrice, Neb.....	905 Second St., Durham, N. C.
William Keefer Brumbach..... <i>Duke University.</i>	Belleville, N. J.....	Duke University, House Q.
Robert vanLiew Campbell..... <i>University of Maryland.</i>	Hagerstown, Md.....	1000 Lamond Ave., Durham, N. C.
Sizer Chambliss..... <i>University of Chattanooga;</i> <i>Duke University.</i>	Chattanooga, Tenn.....	Duke University, House Q.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Cecil Curtis Collins, Jr. <i>Marion Institute; Duke University.</i>	Jacksonville, Fla.	Duke University, House B.
Victor Conforti <i>Connecticut State College.</i>	Torrington, Conn.	116 Buchanan Road, Durham, N. C.
Harry Stough Etter <i>Duke University.</i>	Shippensburg, Pa.	307 Erwin Apartments, Durham, N. C.
Richard Webster Finner <i>University of Florida.</i>	Tallahassee, Fla.	Duke University, House A.
William Henry Fisher, Jr. <i>Duke University.</i>	Centreville, Md.	Duke University, House Q.
Joseph B. Ford, Jr. <i>Duke University.</i>	Savannah, Ga.	Duke University, House Q.
William Henry Fulmer <i>Duke University.</i>	Savannah, Ga.	208 Buchanan Road, Durham, N. C.
Julius Joyce Gibbons, Jr. <i>Duke University.</i>	Wilson, N. C.	Duke University, House A.
Stephen Arnold Ginn <i>Duke University.</i>	Royston, Ga.	1200 College Road, Durham, N. C.
David Watson Goddard <i>Duke University.</i>	Portsmouth, Ohio.	905 Second St., Durham, N. C.
Risley Frith Haines <i>Duke University.</i>	Bayamo, Cuba.	Duke University, House V.
Willis Wilbur Harris <i>University of Florida.</i>	Bee Ridge, Fla.	Duke University, House A.
Leroy Day Harshman <i>Waynesburg College.</i>	Fredericktown, Pa.	1007 Glendale Ave., Durham, N. C.
William Carter Hawkins <i>Mars Hill College; Duke University.</i>	West Asheville, N. C.	Duke University, House A.
Joseph Spurgeon Hiatt, Jr. <i>Lenoir Rhyne College; Duke University.</i>	Lenoir, N. C.	Duke University, House A.
Rolf Elmo Johnson <i>Duke University.</i>	Harrisburg, Pa.	116 Buchanan Road, Durham, N. C.
James Woodruff Kelley <i>University of Delaware.</i>	Wilmington, Del.	1000 Lamond Ave., Durham, N. C.
George Harold Kostant <i>Johns Hopkins University.</i>	Brooklyn, N. Y.	Duke University, House A.
Harold Hunter Kuhn <i>Duke University.</i>	Charleston, W. Va.	Duke University, House A.
Stanley Joseph Lourdeaux <i>Santa Clara University; Menlo Junior College; Stanford University.</i>	San Francisco, Calif.	Duke Hospital.
Paul Franklin Maness <i>Wofford College; Duke University.</i>	Yanceyville, N. C.	Duke University, House Q.
George Margolis <i>Johns Hopkins University.</i>	Montgomery, W. Va.	1022 W. Trinity Ave., Durham, N. C.
Lester Henry Margolis <i>Johns Hopkins University.</i>	Montgomery, W. Va.	1022 W. Trinity Ave., Durham, N. C.
Robert Plato Miller <i>Duke University.</i>	Lincolnton, N. C.	Duke University, House A.
Wardell Hardee Mills <i>East Carolina Teachers College; University of North Carolina.</i>	Greenville, N. C.	Duke University, House B.



<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
John Edward Moss..... <i>Duke University.</i>	Mobile, Ala.....	208 Buchanan Road, Durham, N. C.
Douglas, Steffian Nisbet..... <i>University of Pennsylvania; Duke University.</i>	Philadelphia, Pa.....	Duke University, Epworth.
Robert Read Nixon..... <i>University of Texas; St. Mary's University of San Antonio.</i>	San Antonio, Texas.....	Duke University, House A.
Joseph Freeman Paquet..... <i>University of Oregon; University of Idaho; Duke University.</i>	Portland, Oregon.....	Duke University, House A.
Pierre Patillo Poole..... <i>John B. Stetson University.</i>	Cross Anchor, S. C.....	Duke Hospital.
Rufus Winston Roberts..... <i>Duke University.</i>	Birmingham, Ala.....	Duke University, House C.
Ralph Wayne Rundles..... <i>De Pauw University; Cornell University Graduate School.</i>	Hudson, Ind.....	2109 Chapel Hill St., Durham, N. C.
Robert Thornton Rutherford, Jr..... <i>Duke University.</i>	Charlotte, N. C.....	Duke University, House C.
David Najeeb Saleeby..... <i>Wingate Junior College; Duke University.</i>	Monroe, N. C.....	Duke University, House C.
Clarence Joseph Sapp..... <i>Duke University</i>	Albany, Ga.....	Duke University, House V.
Richard Allen Shields, Jr..... <i>Duke University.</i>	Lewes, Del.....	Duke University, House C.
Patti Marie Sills..... <i>Duke University.</i>	Nashville, N. C.....	116 Buchanan Road, Durham, N. C.
Paul Ervin Simpson..... <i>Muhlenberg College; Duke University.</i>	Ridgewood, N. J.....	Duke Hospital.
George Arthur Sotirion..... <i>Johns Hopkins University.</i>	Chicopee, Mass.....	Duke University, House A.
Ross Clarence Speir, Jr..... <i>Duke University.</i>	Birmingham, Ala.....	Duke University, House C.
Howard Paul Steiger..... <i>Bucknell University; Duke University.</i>	Williamsport, Pa.....	Duke University, House B.
Harvey Grant Taylor..... <i>San Jose State College; Stanford University.</i>	Los Gatos, Calif.....	Duke Hospital.
James Lyman Tullis..... <i>Rollins College.</i>	Cleveland, Ohio.....	1017 Demerius St., Durham, N. C.
James Arthur Tupper..... <i>University of Washington.</i>	Seattle, Wash.....	Duke Hospital.
William Lucas Venning, Jr..... <i>Duke University; Harvard.</i>	Greensboro, N. C.....	Duke University, House B.
Robert Eugene Walsh..... <i>Duke University.</i>	Elmira, N. Y.....	Duke University, House CC.
Jack Hamill Welch..... <i>Ohio State University.</i>	Columbus, Ohio.....	1013 Monmouth Ave., Durham, N. C.
Ethel Adele Weyant..... <i>Adelphia College; Duke University.</i>	Long Island, N. Y.....	1006 Minerva Ave., Durham, N. C.
Richard Bidgood Whitaker, Jr..... <i>Duke University.</i>	Whiteville, N. C.....	Duke University, House A.



<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Robert Macon Whitley, Jr.....	Stantonsburg, N. C.....	Duke University, House A.
<i>Louisburg College; Duke University.</i>		
Robert Cary Wood.....	Lewisburg, W. Va.....	812 Anderson St., Durham, N. C.
<i>Duke University.</i>		
William Egleston Woodruff.....	Winston-Salem, N. C....	1021 Markham Ave., Durham, N. C.
<i>Duke University.</i>		

## JUNIOR SENIOR

Felix M. Adams, Jr.....	Vinita, Okla.....	Duke Hospital, Durham, N. C.
<i>Oklahoma A. and M. College.</i>		
Robert Leonhardt Alter (9/4/37)*.....	Toledo, Ohio..	The Johns Hopkins Hospital, Baltimore, Md.
<i>Dartmouth College; Toledo University; Ohio State University.</i>		
George James Baer (9/4/37)....	Harrisburg, Pa.....	Henry Ford Hospital, Detroit, Mich.
<i>Duke University.</i>		
Elizabeth Mary Balas (6/6/38)...	McKeesport, Pa.....	1010 Lamond Ave., Durham, N. C.
<i>University of Pittsburgh.</i>		
Sherwood W. Barefoot (3/19/38).....	Benson, N. C.....	1005 N. Duke St., Durham, N. C.
<i>University of North Carolina; medical student, ibid., 1934-1936.</i>		
Courtland Dixon Berry (6/6/38).....	Rahway, N. J.....	Duke Hospital, Durham, N. C.
<i>Wesleyan University.</i>		
Robert Martin Biddle.....	Parkersburg, West Va....	1006 Dacian Ave., Durham, N. C.
<i>Northwestern University; Duke University.</i>		
John Riley Black, Jr. (6/6/38).....	Bamberg, S. C.....	1200 Markham Ave., Durham, N. C.
<i>Duke University.</i>		
George McClintock Bogardus (6/6/38).....	Kalispell, Mont..	1601 Duke University Road, Durham, N. C.
<i>University of Washington.</i>		
John Walter Brandt (6/6/38)....	Crafton, Pittsburgh, Pa.	1601 Duke University Road, Durham, N. C.
<i>George Washington University; Pennsylvania State College.</i>		
Walter Earl Brown (9/3/38)....	Wilson, N. C.....	2541 Chapel Hill St., Durham, N. C.
<i>University of North Carolina; medical student, ibid., 1934-1936.</i>		
Charles Pardue Bunch (12/17/38).....	Statesville, N. C.....	818 Sixth St., Durham, N. C.
<i>Duke University.</i>		
Margaret Virginia Burns (9/4/37).....	Asheville, N. C.....	Duke Hospital, Durham, N. C.
<i>Duke University.</i>		
James Merryman Burk (12/17/38).....	Decatur, Ind.....	208 Buchanan Road, Durham, N. C.
<i>University of Indiana.</i>		
C. Willard Camalier, Jr. (6/6/38).....	Washington, D. C.....	500 Watts St., Durham, N. C.
<i>George Washington University.</i>		

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Gordon Gayton Carmichael..... <i>Rose Polytechnic; Indiana State University.</i>	Terre Haute, Ind.....	112 Buchanan Road, Durham, N. C.
Richard Rutledge Carter (6/6/38).....	Portland, Oregon.....	Duke Hospital. <i>University of Oregon.</i>
David Cayer (12/17/38)..... <i>Duke University.</i>	Beachwood, N. J.....	Duke Hospital.
James Madison Covington, Jr. (6/6/38)..... <i>Davidson College.</i>	Wadesboro, N. C.....	Duke Hospital.
John Hulon Cox (9/3/38)..... <i>University of North Carolina; medical student, ibid., 1934-1936.</i>	Winston-Salem, N. C.....	Duke Hospital.
Frank Harold Crosby..... <i>University of Illinois.</i>	Lockport, N. Y.....	Duke University, House A.
Almon Rufus Cross (6/6/38)..... <i>University of New Hampshire.</i>	Colebrook, N. H.....	Duke Hospital.
James Hawley Currens (6/6/38)..... <i>Western Illinois State Teachers College; University of Michigan.</i>	Macomb, Ill.....	Duke University, House A.
John Munroe Douglas..... <i>Davidson College.</i>	Davidson, N. C.....	402 Watts St., Durham, N. C.
Jere Robert Downing..... <i>Duke University; University of New Hampshire.</i>	Kennebunk, Maine.....	Aycock Apartments, Durham, N. C.
Charles Ross Duncan (9/4/37)... <i>Wake Forest College; medical student, ibid., 1931-1933.</i>	Clayton, N. C.....	Rex Hospital, Raleigh, N. C.
Ernest Brindley Dunlap, Jr..... <i>Duke University.</i>	Lawton, Okla.....	1006 Dacian Ave., Durham, N. C.
Archie Yelverton Eagles..... <i>Duke University.</i>	Wilson, N. C.....	Duke Hospital.
William Fox Eckbert..... <i>University of Delaware.</i>	Hanover, Pa.....	Duke Hospital.
Arnold Lewis Field (12/17/38)... <i>Johns Hopkins University.</i>	Schnectady, N. Y.....	Duke Hospital.
David Hudson Fogel (6/6/38)... <i>New York University; University of Virginia.</i>	Brooklyn, N. Y.....	808 Third St., Durham, N. C.
Atticus James Gill (6/6/38)..... <i>Duke University.</i>	Dallas, Texas.....	905 Second St., Durham, N. C.
Dan Cummins Gill (6/6/38)..... <i>Virginia Military Institute; Oklahoma University.</i>	Okmulgee, Okla.....	Duke Hospital.
William Reid Haas (3/19/38)... <i>University of Minnesota; Carleton College; University of Wisconsin.</i>	Minneapolis, Minn.....	Duke Hospital.
Collins Fremont Hall (6/6/38)... <i>Gettysburg College.</i>	Williamsport, Pa.....	Duke Hospital.
Walter Darlington Hastings, Jr. (6/6/38)..... <i>Duke University.</i>	Columbia, Tenn.....	1013 Monmouth Ave., Durham, N. C.
William Victor Haymond (12/17/38)..... <i>University of Utah.</i>	Garfield, Utah.....	Duke Hospital.

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<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Harry Stuart Hickman (6/6/38)..... <i>Duke University.</i>	Hudson, N. C.....	1013 N. Gregson St., Durham, N. C.
William Fredwin Hollister (6/6/38)..... <i>University of California.</i>	Santa Monica, Calif.....	Duke Hospital.
Joe McKinney Ivie (6/6/38)..... <i>Duke University.</i>	Leaksville, N. C.....	1013 Monmouth Ave., Durham, N. C.
Arthur Harvey Joistad (12/18/37)..... <i>University of Minnesota; University of North Dakota; medical student, latter, 1933-1935.</i>	Fargo, N. D.....	Strong Memorial Hospital, Rochester, N. Y.
William Henry Kaufman (9/4/37)..... <i>Johns Hopkins University.</i>	Timonium, Md.....	Duke Hospital.
Harold Barker Kernodle..... <i>Duke University.</i>	Elon College, N. C.....	Duke University, House A.
Robert Dumais Kornegay..... <i>Davidson College.</i>	Rocky Mount, N. C.....	Duke Hospital.
Charles Larsen, Jr. (12/17/38).... <i>University of Florida.</i>	Lakeland, Fla.....	Duke Hospital.
Charles Wells Latchem (12/17/38)..... <i>St. Ambrose College; Duke University.</i>	Washington, Iowa.....	402 Watts St., Durham, N. C.
Jerome Lawrence (12/17/38)..... <i>New York University.</i>	New York, N. Y.....	Duke University, House B.
Lyndon Edmund Lee, Jr. (12/18/37)..... <i>University of Virginia; Columbia University.</i>	Mount Vernon, N. Y.	Blue Ridge Sanatorium and University Hospital, Charlottesville, Va.
Joseph Michael Lesko (12/18/37). <i>University of Michigan.</i>	Bridgeport, Conn.....	McLean Hospital, Boston, Mass.
Thomas Norwood Lide (3/19/38) <i>Clemson College.</i>	Anderson, S. C.....	1013 Monmouth Ave., Durham, N. C.
Robert Carl Lincicome (12/17/38)..... <i>Marietta College.</i>	Marietta, Ohio.....	Duke Hospital.
Paul Warren Lucas..... <i>Duke University.</i>	Durham, N. C.....	100 Club Blvd., Durham, N. C.
William Alexander MacColl (3/19/38)..... <i>Amherst College; Massachusetts State Graduate School.</i>	Northampton, Mass.....	2110 Wilson St., Durham, N. C.
Theodore Roosevelt Mattocks (12/17/38)..... <i>Duke University.</i>	Maysville, N. C.....	Duke University, House P.
William Jefferson McAnally, Jr. (12/17/38)..... <i>Duke University.</i>	High Point, N. C.....	2003 Club Blvd., Durham, N. C.
Joseph Pickett McCracken (9/4/37)..... <i>Duke University.</i>	Durham, N. C.....	Baltimore City Hospitals, Baltimore, Md.

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<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Harold Ellis Merkley (12/17/38).....	Salt Lake City, Utah.....	809 Second St., Durham, N. C.
<i>Brigham Young University.</i>		
Francis Poynter Meyer, Jr.....	St. Petersburg, Fla.....	818 Third St., Durham, N. C.
<i>St. Petersburg Junior College; Duke University.</i>		
Oscar Peyton Moffitt, Jr. (12/17/38).....	High Point, N. C.....	Duke Hospital. Duke University.
<i>Duke University.</i>		
Rufus Clegg Morrow, Jr. (12/17/38).....	Zitacuaro, Michoacan, Mexico	Duke Hospital.
<i>Davidson College.</i>		
Henry George Morton (12/18/37).....	Sarasota, Fla.....	Duke Hospital. Duke University.
<i>Duke University.</i>		
Lyle Alfred Moser.....	Muir, Pa.....	Duke University. House B.
<i>Muhlenberg College; Lebanon Valley College.</i>		
Colin Alexander Munroe.....	Charlotte, N. C.....	Duke University. House B.
<i>Davidson College.</i>		
Henry Ten Eycke Munson.....	Detroit, Mich.....	1026 Trinity Ave., Durham, N. C.
<i>Wayne University; Duke University.</i>		
Brodie Crump Nalle, Jr.....	Charlotte, N. C.....	Duke University, House C.
<i>University of North Carolina.</i>		
Glenn Carraway Newman.....	Clinton, N. C.....	Duke University, House C.
<i>Duke University; Wake Forest College.</i>		
Robert H. Nickau.....	Rahway, N. J.....	Duke Hospital. North Carolina State College.
<i>North Carolina State College.</i>		
Pat Ireland Nixon, Jr.....	San Antonio, Texas.....	Duke University, House A.
<i>University of Texas.</i>		
Gilbert Matthewson Palen.....	Woodbury, N. J.....	208 Buchanan Road, Durham, N. C.
<i>Hamilton College.</i>		
Albert Archer Parrish (12/17/38).....	Tabor City, N. C.....	Duke Hospital. Duke University.
<i>Duke University.</i>		
James McGuire Peery (6/6/38)...	North Tazewell, Va...1013 Monmouth Ave., Durham, N. C.	
<i>William and Mary College.</i>		
R. Mel Perry (6/6/38).....	Pasco, Wash.....	Duke University, House B.
<i>University of Washington.</i>		
William Flynn Powell (12/18/37).....	Asheville, N. C....N. C. State Sanatorium, Pinhurst, N. C.	
<i>Princeton University.</i>		
Lawrence Augustus Pyle, Jr.....	Washington, D. C.....	Duke Hospital. University of Maryland; George Washington University.
<i>University of Maryland; George Washington University.</i>		
James Sidney Raper (9/3/38)....	Lexington, N. C.....	Duke Hospital. Duke University.
<i>Duke University.</i>		
Ira Stanley Ross (6/6/38).....	Newark, N. J.....	808 Third St., Durham, N. C.
<i>Duke University.</i>		
Weldon Troh Ross (6/6/38).....	McMinnville, Oregon.....	Duke Hospital. University of Oregon.
<i>University of Oregon.</i>		
William J. Rysanek, Jr.....	Baltimore, Md.....	Erwin Apartments. Johns Hopkins University.
<i>Johns Hopkins University.</i>		

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<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
James Wilbur Sachs (6/6/38)...	Hancock, Md.....	Duke Hospital. <i>Duke University.</i>
Logan Everett Sawyer.....	South Mills, N. C.....	Duke Hospital. <i>Duke University.</i>
Paul Welstead Schanher, Jr. (12/17/38).....	Mt. Clemens, Mich.....	Duke University, House A. <i>Duke University.</i>
Thomas Gilbert Schnoor (12/17/38).....	Berkeley, Calif.....	Erwin Apartments. <i>University of California; University of Nevada.</i>
George Addison Silver, III (9/4/37).....	Camden, N. J.....	Duke Hospital. <i>Guilford College.</i>
Robert Cathcart Smith.....	Mullins, S. C.....	208 Buchanan Road Durham, N. C. <i>The Citadel.</i>
Sidney Stark.....	Brooklyn, N. Y.....	Duke University. House B. <i>New York University.</i>
Wray Donald Storey (12/17/38)..<	Scottdale, Pa.....	Duke Hospital. <i>Geneva College.</i>
George Merritt Stroud, III (3/19/38).....	Chester, Pa.....	Duke University. House B. <i>Duke University.</i>
Charles Woodrow Styron (6/6/38).....	New Bern, N. C.....	Duke Hospital. <i>North Carolina State College.</i>
Doris Lee Surles.....	Dunn, N. C.....	116 Buchanan Road, Durham, N. C. <i>Duke University.</i>
Joseph Dimmick Thetford (12/17/38).....	Montgomery, Ala.....	Duke Hospital. <i>Tulane University; University of Alabama.</i>
Edwin Hale Thornhill (3/19/38).....	Bluefield, W. Va.....	1013 Monmouth Ave., Durham, N. C. <i>Duke University.</i>
John Redden Timmons.....	Columbia, S. C.....	Duke Hospital. <i>University of South Carolina; Duke University.</i>
William Trachtenberg (12/17/38).....	Winston-Salem, N. C.....	Duke University. House C. <i>University of North Carolina; Harvard College.</i>
Eulyss Robert Troxler (6/6/38)..<	Greensboro, N. C.....	Duke University. House A. <i>Duke University.</i>
Larry Turner.....	Rocky Mount, N. C.....	Duke University. House B. <i>Duke University.</i>
Joe Milton VanHoy (6/6/38)....	Charlotte, N. C.....	Duke University. House A. <i>Duke University.</i>
Philip Holt Varner (6/6/38)....	Morgantown, W. Va.....	1021 Hale St., Durham, N. C. <i>West Virginia University; medical student, ibid., 1934-1936.</i>
Norman Clemm Veale (12/18/37).....	San Diego, Calif.....	Baker Sanatorium, Lumberton, N. C. <i>University of California.</i>

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<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Joseph Allison Cannon		
Wadsworth, II.....	Durham, N. C.....	410 Buchanan Road, Durham, N. C.
Frederic Monroe Jacob Walp....	Slatington, Pa.....	Duke University, University of Pennsylvania; Muhlenberg College.
George Archibald Watson, Jr.....	Cranford, N. J.....	c/o Dr. Shuler, Lehigh University; New York University; Duke University.
Roderick Cameron Webb.....	St. Petersburg, Fla.....	Duke University, St. Petersburg Junior College; Duke University.
Nelson Mortimer Webster (12/18/37).....	Hollywood, Calif...	Baltimore City Hospital, Baltimore, Md.
Kenneth Durham Weeks.....	Rocky Mount, N. C.....	Duke Hospital. Davidson College.
Warner Lee Wells (6/6/38)....	Raleigh, N. C.....	Duke Hospital. Duke University.
Irving Bernard Wexler.....	New York City.....	Duke Hospital. New York University.
Charles Stanley Whitaker (6/6/38).....	Brooklyn, N. Y.....	1200 College Road, Durham, N. C.
Reaves Augustus Wilson.....	Sarasota, Fla.....	Duke University, University of Florida.
Frank Mahlon Woolsey, Jr. (6/6/38).....	Hancock N. Y.....	2200 University Drive, Durham, N. C.
James Clay Wren.....	Siler City, N. C.....	Duke Hospital. Rutherford College; Duke University; medical student, University of North Carolina, 1935-1937.
Dorothy Bryan Wyvell (6/6/38).....	Washington, D. C....	Faculty Apartments, Woman's College Campus, Durham, N. C.

## THE SCHOOL OF NURSING

## SENIOR

Adams, Maude	Gibson, Jean
Barbee, Sula	Hall, Myra
Berry, Annie	Jarrett, Sara
Brewer, Lottie	Olsen, Lurline
Cook, Maud	Pegram, Annie Lee
Currence, Martha	Pope, Virginia
Decker, Edna	Smith, Hilda
Dunn, Dorothy	Umbel, Waneta
Eagles, Kathleen	Wilson, Sarah Ann

## JUNIOR

Adams, Dorothy	Applewhite, Ida S.
Alexander, Ruth	Atzrodt, Rebecca

\* The date in parentheses after a name indicates the time of completion of the medical course.



Barton, Ruth  
 Bisanar, Lelia  
 Castleberry, Margaret  
 Cook, Betty  
 Cothran, Mary Lillie  
 Crowell, Alucia  
 Gangle, Elsie  
 Gordon, Nellie  
 Maxwell, Winifred

Miller, Carolyn  
 Parrish, Marcelle  
 Perry, Mary  
 Pickett, Margaret  
 Rabb, Iris  
 Rearden, Laureen  
 Richards, Eugenia  
 Seawell, Margaret  
 Shields, Lois

#### FRESHMAN

Allan, Margaret  
 Bagby, Virginia  
 Boone, Evelyn  
 Boyd, Mary Alice  
 Brake, Thelma  
 Bruffey, Jean  
 Bryant, Carl  
 Clay, Isa  
 Cline, Helen  
 Gandy, Virginia  
 Gouge, Myrtle  
 Harloe, Eleanor  
 Hinshaw, Esther  
 Jones, Nancy

Makely, Antoinette  
 Malone, Ernestine  
 Morison, Polly  
 Painter, Isabelle  
 Parker, Esther  
 Paynter, Marcella  
 Ray, Dorothy  
 Steffens, Louise  
 Stowe, Rebecca  
 Wagner, Josephine  
 Weaver, Martha  
 Weeks, Charlotte  
 Wilkinson, Elizabeth

#### THE SCHOOL OF RELIGION

##### SENIOR YEAR

Bearden, Robert Edward Lee  
 A.B., Henderson State College, 1935.  
 Budd, Allen Clark  
 A.B., Duke, 1935.  
 Greene, Johnnie Thomas  
 A.B., Duke, 1936.  
 Hardin, Elliott Wannamaker  
 A.B., Wofford College, 1935.  
 Holmes, Julian John  
 A.B., Lenoir-Rhyne College, 1935.  
 Houck, Winton Robert  
 A.B., Morris-Harvey College, 1935.  
 Hyde, Forrest Ervin  
 A.B., Elon College, 1934.  
 Keller, Albert Freed  
 A.B., Duke, 1935.  
 Kester, Grier Smith, Jr.  
 B.S., University of South Carolina, 1933.  
 Lowman, Everett Herman  
 A.B., Berea College, 1935.  
 Mathison, Ovie Wilson  
 A.B., Birmingham-Southern College, 1934.  
 Miller, John Carlisle  
 A.B., Birmingham-Southern College, 1935.  
 Morris, Clarence Poe  
 A.B., High Point College, 1933.  
 Morton, Hilton Osro  
 A.B., Redlands College, 1935.

Russellville, Ark.  
 Greenwood, Fla.  
 Rougemont, N. C.  
 Charlotte, N. C.  
 Statesville, N. C.  
 Maben, W. Va.  
 Sanford, N. C.  
 Norfolk, Va.  
 Columbia, S. C.  
 Connelly Springs, N. C.  
 Atlantic, N. C.  
 Malvern, Ala.  
 Pinnacle, N. C.  
 Santa Ana, Calif.

Myers, Horwood Prettyman, Jr. A.B., Randolph-Macon College, 1935.	Nashville, Tenn.
Ormond, John Kern A.B., Duke, 1935.	Princeton, N. C.
Patterson, Floyd Merrill A.B., Southern Methodist, 1935.	Dallas, Texas
Rickard, Harry Cleveland A.B., Shepherd State Teachers College, 1935.	Churchville, Va.
Rink, James Edward A.B., Duke, 1935.	Winston-Salem, N. C.
Shives, Marshall Bell A.B., Lenoir-Rhyne College, 1935.	Lincolnton, N. C.
Smalling, James Arthur A.B., Emory and Henry College, 1934.	Bristol, Tenn.
Stephenson, Marion Osborne A.B., Duke, 1932.	Durham, N. C.
Swann, Edgar Allen A.B., Emory and Henry College, 1935.	Clifton Forge, Va.
Taylor, Paul Richard A.B., Elon College, 1934.	Lewisville, N. C.
Taylor, Voigt Otway A.B., Newberry College, 1929.	Columbia, S. C.
Waggoner, John Phillip, Jr. A.B., Duke, 1935.	Charlotte, N. C.
Warren, Millard Whitefield A.B., Duke, 1931.	Youngsville, N. C.
White, Percy Daniel A.B., Emory and Henry College, 1935.	Dare, Va.
Wilkerson, Milton Chick A.B., Hampden-Sydney College, 1933.	Mattoax, Va.
Young, James Doynce A.B., Lambuth College, 1930.	Pittsboro, N. C.

## MIDDLE YEAR

Barrs, William Kenneth A.B., Duke, 1937.	South Miami, Fla.
Bloodworth, Marcus Herring A.B., Randolph-Macon College, 1936.	Norfolk, Va.
Brandon, Joseph Max, Jr. A.B., Duke, 1936.	Morganton, N. C.
Bumgarner, George William A.B., Scarritt College, 1936.	Wilkesboro, N. C.
Coley, Herman Theophilus A.B., Wofford College, 1936.	Hillsboro, N. C.
Collins, Claude Ray A.B., Emory and Henry College, 1936.	Christiansburg, Va.
Dixon, William Randolph A.B., Wake Forest College, 1935.	Rocky Mount, N. C.
Ellzey, William Clark A.B., Southeast Missouri State Teachers College, 1936.	Perryton, Texas
Hamilton, John Reynolds A.B., Catawba College, 1936.	Salisbury, N. C.
Heckard, Cecil Linwood A.B., Wofford College, 1936.	Albemarle, N. C.
Higgins, James Silvester A.B., High Point College, 1937.	Guilford College, N. C.

- Hubbard, Charles Spence  
A.B., University of North Carolina, 1936.
- Hutchins, Walter Wilbur  
A.B., High Point College, 1935.
- Jarvis, James Clair  
A.B., Morris-Harvey College, 1936.
- Jones, Joseph Simeon  
A.B., Elon College, 1932.
- Jones, Theodore Edward  
A.B., Wofford College, 1935.
- Lane, Daniel  
A.B., Duke, 1913.
- Lindsay, Julian Astor  
B.S., Virginia Polytechnic Institute, 1935.
- McCulley, Robert William  
A.B., Lenoir-Rhyne College, 1936.
- Mallory, Rupert Talmage  
A.B., Morris-Harvey College, 1936.
- Martin, Robert Vance  
A.B., Wofford College, 1936.
- Nicks, Robert Lee  
A.B., Duke, 1937.
- O'Neal, Ernest Eugene  
B.S., University of Mississippi, 1935.
- Ousley, Carl Lee  
B.S., Wake Forest College, 1935.
- Overton, James Hardy, Jr.  
A.B., University of North Carolina, 1934.
- Owens, William Hector  
A.B., Centre College, 1931.
- Page, Jack Ward  
A.B., Duke, 1936.
- Pittard, Jessie Leo  
A.B., High Point College, 1936.
- Queen, Virgil Erwin  
A.B., Catawba College, 1937.
- Reese, David Whitehead, Jr.  
A.B., Wofford College, 1936.
- Reichard, James Charles  
A.B., Davidson College, 1936.
- Richey, McMurphy Smith  
A.B., Duke, 1936.
- Rooks, John James  
A.B., Birmingham-Southern College, 1936.
- Ross, Courtney Beaman  
A.B., Davidson College, 1935.
- Schreyer, George Maurice  
A.B., Wofford College, 1936.
- Shackford, Joseph Temple  
A.B., Duke, 1934.
- Smith, Aubert Marlyn  
A.B., High Point College, 1935.
- Soper, Elgar Clyde  
A.B., Duke, 1936.
- Tate, Robert Spence, Jr.  
A.B., Southern Methodist, 1936.
- Sanford, N. C.
- Apex, N. C.
- Hamlin, W. Va.
- Mebane, N. C.
- Marion, S. C.
- Durham, N. C.
- Washington, N. C.
- Lenoir, N. C.
- Spring Hill, W. Va.
- Gastonia, N. C.
- Cedar Grove, N. C.
- Saucier, Miss.
- Wendell, N. C.
- Coinjock, N. C.
- Danville, Ky.
- Rowland, N. C.
- Roanoke Rapids, N. C.
- Morganton, N. C.
- Greer, S. C.
- Bynum, N. C.
- San Benito, Texas
- Tampa, Fla.
- Elmwood, N. C.
- Fletcher, N. C.
- Rock Hill, S. C.
- High Point, N. C.
- Olney, Md.
- San Antonio, Texas

Vick, Thomas Marvin  
A.B., Southern Methodist, 1936.  
Watts, Ewart Goodell  
A.B., Southern Methodist, 1936.  
Williams, Melvin John  
A.B., Duke, 1936.  
Wood, Hoyt Hampton  
A.B., High Point College, 1936.

Dallas, Texas  
Little Rock, Ark.  
Durham, N. C.  
Denton, N. C.

**JUNIOR YEAR**

Andrews, William Ed  
A.B., Wofford College, 1937.  
Arbaugh, Robert Newton  
A.B., Hendrix College, 1937.  
Baker, Homer Ortho  
A.B., Wake Forest College, 1936.  
Biggers, Sherrill Bost  
B.Ph., Emory, 1937.  
Brady, William Herman  
A.B., Duke, 1937.  
Brown, Raymond Odell  
A.B., High Point College, 1937.  
Bustle, Wade Robert  
A.B., Davidson College, 1937.  
Crutchfield, Finis Alonzo  
A.B., Southern Methodist, 1937.  
Dodge, William Wesley  
A.B., American, 1937.  
Evans, Joseph Claude  
A.B., Wofford College, 1937.  
\*Floyd, John Lewis  
A.B., Duke, 1938.  
Foley, Lemley Peter  
A.B., Berea College, 1937.  
Freeman, Ralph Lexie  
B.S., Tennessee Polytechnic Institute, 1937.  
Garrison, Robert Edmund  
A.B., Randolph-Macon College, 1937.  
Holder, Ray  
A.B., University of Mississippi, 1935; A.M., University of Mississippi, 1936.  
Kelley, Marvin Hess  
A.B., Hendrix College, 1937.  
Kiker, Seaborn Martin  
A.B., Southern Methodist, 1937.  
Lee, Kyo Sun  
A.B., St. Paul's University, 1937.  
McLeod, Walter Grey  
A.B., Birmingham-Southern College, 1937.  
Milstead, Harold Ashton  
A.B., St. John's College, 1937.  
Morton, Weldon Bascom  
A.B., McMurry College, 1937.  
Nicholson, Ralph Herman  
A.B., Lenoir-Rhyne College, 1937.

Bryson City, N. C.  
Paragould, Ark.  
Wake Forest, N. C.  
Concord, N. C.  
Highfalls, N. C.  
High Point, N. C.  
Statesville, N. C.  
Vernon, Texas  
McLean, Va.  
Anderson, S. C.  
Gasburg, Va.  
Stuart, Va.  
Cumberland Furnace, Tenn.  
Dillwyn, Va.  
Lucedale, Miss.  
Holly Grove, Ark.  
Greenville, Texas  
Seoul, Korea  
Jackson, Ala.  
Chicamuxen, Md.  
Abilene, Texas  
Statesville, N. C.

\* The degree of Bachelor of Arts will be conferred in June, 1938.

Ratliff, Henry Marvin	Austin, Texas
A.B., University of Texas, 1937.	
Richardson, Henry Powell	Narrows, Va.
A.B., Emory and Henry College, 1937.	
Robertson, Minns Sledge	Columbus, Ga.
A.B., Louisiana State, 1936.	
Sides, William Cecil, Jr.	Kannapolis, N. C.
A.B., Wofford College, 1936.	
Simpson, Harold Ross	Altoona, Pa.
A.B., Catawba College, 1937.	
Stevens, Wyatt Millard	Roanoke, Ala.
A.B., Elon College, 1936.	
Taylor, Key Wesley	Compton, Calif.
B.R.E., Gordon College, 1936.	
Thompson, Jo Marie Asbury	Mount Holly, N. C.
A.B., Greensboro College, 1937.	
Triplett, Max	Hillsboro, Texas
A.B., Southwestern, 1937.	
Wheeler, Sterling Fisher	San Antonio, Texas
A.B., Southern Methodist, 1937.	

### JUNALUSKA SCHOOL OF RELIGION

Barre, William Kenneth	Durham, N. C.
Beadle, Merritt Stephen	Lafayette, La.
Beadle, Winans Fletcher	Highlands, N. C.
Biggers, Sherrill Bost	Concord, N. C.
Campbell, Laura Winder	Charles Town, W. Va.
Dixon, William Randolph	Rocky Mount, N. C.
Evans, Joseph Claude	Anderson, S. C.
Grier, Mary Elizabeth	Winston-Salem, N. C.
Graham, Elizabeth	MacRae, Ga.
Hager, William Webb	New London, N. C.
Higgins, James Silvester	Guilford College, N. C.
Holder, Ray	Lucedale, Miss.
Huneycutt, Wiley Jackson	West Jefferson, N. C.
Hyde, Forest Ervin	Sanford, N. C.
McElhannon, Bernice	Waynesville, N. C.
Nicks, Robert Lee	Cedar Grove, N. C.

## SUMMARY

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### GOVERNMENT, ADMINISTRATION, AND INSTRUCTION

Governing Boards .....	51
Trustees of Duke University .....	36
Trustees of Duke Endowment .....	15
Officers of Administration .....	63
The University .....	4
Trinity College, the Woman's College and the Schools .....	21
Assistants in Administration .....	38
Officers of Instruction .....	386*
Professors .....	97
Associate Professors .....	35
Assistant Professors .....	72
Instructors .....	122
Instructional Assistants .....	60**
Staff of University Libraries .....	68
TOTAL .....	568

### STUDENTS

Trinity College .....	1,758
Seniors .....	290
(includes 52 summer school graduates)	
Juniors .....	348
Sophomores .....	413
Freshmen .....	697
(includes 176 advanced freshmen)	
Special students .....	10
Woman's College .....	874
Seniors .....	189
Juniors .....	186
Sophomores .....	194
Freshmen .....	274
(includes 30 advanced freshmen)	
Special students .....	26
Auditors .....	5
The Graduate School of Arts and Sciences .....	1,123
(249 of these in regular academic year)	

\* Does not include visiting members of Summer School faculty.

\*\* Does not include Graduate Assistants, Fellows and Scholars some of whom meet classes.



The School of Law .....	110
First Year .....	52
Second Year .....	34
Third year .....	20
Graduate students .....	1
Special students .....	3
The School of Medicine .....	314
First Year .....	71
Second Year .....	63
Junior-Senior Year .....	111
Graduates (Internes and Residents) .....	69
The School of Nursing .....	85
Technicians .....	15
The School of Dietetics .....	4
The School of Religion .....	105
Seniors .....	30
Middle Year .....	43
Juniors .....	32
The Summer School (less duplicates) .....	2,638
Graduates, First Term .....	976
Graduates, Second Term .....	187
Graduates, Third Term .....	396
Undergraduates, First Term .....	765
Undergraduates, Second Term .....	121
Undergraduates, Third Term .....	303
Junaluska Summer School, affiliated with Duke University, and Junaluska School of Religion .....	205
Summer Quarter, Schools of Medicine and Nursing .....	102
(includes special research students)	
	<hr/>
	7,026
Deduction for names appearing more than once .....	1,524
	<hr/>
Enrollment for 12 months' period .....	5,502
	<hr/>
Enrollment in academic year .....	3,493

## GIFTS AND BEQUESTS

Duke University derives its principal support from endowment funds and from miscellaneous gifts and grants. Permanently invested capital funds enable the University to offer to students academic and professional training at a fraction of its actual cost. The effectiveness of the University is determined to a large extent by its financial resources.

Gifts and bequests devoted to the improvement of the work of the University will be received and administered by the trustees in accordance with the desires of the donor.

*Gifts.* Any kind of property, real or personal, may be the subject of a gift and only such form as is required to pass title is necessary. If the gift consists of real property, the title will be passed by deed; if it consists of cash or unregistered bonds, the gift is consummated by delivery of the property; or if stocks, by delivery of properly endorsed stock certificates. Unless restricted, the use of gifts is at the discretion of the Board of Trustees. Usually the proceeds, conservatively invested, are added to the permanent endowment of the University. The donor may, however, restrict the use of any gift and designate definitely the objects for which it shall be used. In such cases, the transfer of property would be accomplished by a letter or other document describing in detail the objects for which the proceeds of the gift are to be used and when accepted by the University the terms or conditions set out therein become binding upon it.

*Bequests.* Bequests may be made to the University by an appropriate clause inserted in a will or by codicil to a will already drawn. The following forms will serve as appropriate clauses for wills or codicils:

### General

I give (devise; if real property) and bequeath to Duke University, a corporation existing under the laws of the State of North Carolina and located in the City and County of Durham, State of North Carolina, and its successors forever the sum of..... dollars (or otherwise describe gift) for the general purposes and uses of the University at the discretion of the Board of Trustees.

### Specific

I give (devise; if real property) and bequeath to Duke University, a corporation existing under the laws of the State of North Carolina and located in the City and County of Durham, State of North Carolina, or its successors forever, the sum of..... dollars (or otherwise describe gift) and direct that the income therefrom shall be used for the following purposes, viz. (here describe in detail the use desired).

### Codicil

Having heretofore made my last Will and Testament dated....., and being of sound mind, I hereby make, publish, and declare the following codicil thereto: (here insert clause in same form as if it had been included in body of Will). Except as hereinbefore changed, I hereby ratify, confirm and republish my said last Will and Testament.



# INDEX

- Accountancy, 80
- Administration, officers of, 22
  - business, 22
  - educational, 23
  - general, 22
  - instructional, 24
  - physical education and student health, 50
  - public relations and alumni affairs, 23
  - social and musical activities, 50
  - university chapel, 50
  - university libraries, 47
- Admission and degrees, requirements for,
  - graduate, 159
- Admission, general regulations, 55
  - by certificate, 55
  - by examination, 56
  - special students, 57
  - to advanced standing, 56
  - to college, 55
  - to engineering courses, 70
  - units of, 55
- Alumnae Association, 128
  - council, 128
- Alumni Association, 128
  - council, 128
  - organizations, 128
- Alumni Office, 128
  - Register, 129
- American Literature*, 157
- Angier B. Duke Memorial Scholarships, 138
- Appointments Office, 129
- Assistants, 39
- Athletic Council, 124
- Avera Bible Lectures, The, 127
  
- Biology, 117
  - Boarding accommodations, 134
- Board of Trustees of Duke Endowment, 21
- Board of Trustees of Duke University, 20
- Botany, 75
- Business administration, 79
- By-laws, of the University, 16
  
- Calendar, University, 5
  - 1938-1939, 7
- Character and Personality*, 157
- Charter, of the University, 15
- Chemistry, 77
- Civil Engineering, 71, 86
  - courses of study, 86
- Class standing, 121
- Committees of the board of trustees, 21
- Composition, deficiencies in, 122
- Contributions to Psychological Theory*, 158
- Course cards, 120
- Courses of instruction, 75
  - accountancy, 80
  - American literature, 89
  - biology, 117
  - botany, 75
  - business administration, 79
  - chemistry, 77
  - civil engineering, 86
  - commerce and industry, 81
  - composition, 88
  - dramatics, 88
  - economics, 79
  - education, 82, 96
  - electrical engineering, 86
  - engineering, 85
  - English, 88
  - fine arts, 90
  - forest botany, 76
  - forestry, 92
  - French, 114
  - geology, 92
  - German, 93
  - Greek, 94
  - health, 96
  - history, 97
  - hygiene, 97
  - Italian, 115
  - Latin, 100
  - law, 101
  - mathematics, 102
  - mechanical engineering, 87
  - Middle and Far East, 118
  - music, 104
  - philosophy, 104
  - physics, 106
  - political science, 108
  - psychology, 109
  - public speaking, 88
  - religion, 111
  - Roman studies, 100
  - Romance languages, 114
  - sociology, 116
  - Spanish, 115
  - zoology, 117
- Dean's List, 123
- Degree, admission to candidacy for a graduate, 159
- Degrees, advanced, 159
- Degrees, conferred, 299
  - Bachelor of Arts, 300
  - Bachelor of Divinity, 306
  - Bachelor of Laws, 306
  - Bachelor of Science, 304
  - Diploma in Nursing, 307
  - Doctor of Medicine, 306
  - Doctor of Philosophy, 307
  - Honorary, 309
  - Master of Arts, 305
  - Master of Education, 306
  - Master of Laws, 306
- Degrees, requirements for
  - Bachelor of Arts, 58
  - Bachelor of Divinity, 255
  - Bachelor of Laws, 205
  - Bachelor of Science, 67
  - Bachelor of Science and Graduate in Nursing, 247
  - Bachelor of Science in Engineering, 70
  - Bachelor of Science in Medicine, 225
  - Doctor of Juridical Science, 209
  - Doctor of Medicine, 225
  - Doctor of Philosophy, 160
  - Master of Arts, 159
  - Master of Education, 159
  - Master of Laws, 208
- Dormitories, 131, 133, 155
- Duke Mathematical Journal*, 158
- Duke University Day, 127
- Duke University News Service, 129
- Duke University Press, 157
- Duke University Research Studies in Education*, 158
  
- Ecological Monographs*, 157
- Economics, 79
- Education, 82
  - physical education, 96
- Electrical engineering, 86
- Employment, 139
- Engineering, 85

- English, 88  
 Enrollment, 120  
 Examinations, 120  
 Exclusion for failure, 122  
 Expenses and fees, 130  
     estimated for an academic year, 131  
  
 Fees and expenses, 130  
 Fellows, university, 41  
 Fine Arts, 90  
 Flowers, John M., Lectures, 127  
 Forestry, 92  
 Fraternities, 142  
 French, 114  
 Freshman week, 57  
 Funds, loan, 138  
  
 General fees, 130  
 General library, 47  
 General statement, 54  
 German, 93  
 Gifts and bequests, 429  
 Government, of Duke University, 14  
 Grades, regulations regarding, 120  
 Graduate assistants, 41  
 Graduate courses, admission to, 158  
 Graduate dormitories, 155  
 Graduate fellowships and scholarships, 155  
 Graduate instruction, general statement, 149  
     council on, 148  
 Graduate scholars, 45  
 Graduate School of Arts and Sciences, 145  
     calendar, 146  
     courses of instruction, 163  
         botany, 166  
         chemistry, 167  
         economics, 169  
         education, 170  
         English, 174  
         forestry, 176  
         German, 177  
         Greek, 163  
         history, 177  
         Latin, 164  
         mathematics, 179  
         medicine, 192  
         philosophy, 181  
         physics, 183  
         political science, 185  
         psychology, 186  
         religion, 187  
         romance languages, 188  
         Sanskrit, 165  
         Semitics, 165  
         sociology, 189  
         zoology, 190  
     dormitories, 155  
     Duke Forest, 155  
     fees, 193  
     laboratories, 153  
     library, 157  
     officers of administration, 148  
 Greek, 94  
 Groups of studies for the degree of Bachelor of Arts, 60  
     group I—general, 60  
     group II—business administration, 61  
     group III—religion, 61  
     group IV—pre-medical, 61  
     group V—college teaching, 62  
     group VI—public school teaching, 62  
     group VII—pre-legal, 64  
     group VIII—social service, 65  
     group IX—academic-law combination, 66  
     group X—honors, 65  
 Bachelor of Science, 67  
     group I—general, 68  
     group II—pre-forestry, 68  
     Bachelor of Science in Engineering, 70  
         group I—civil engineering, 71  
         group II—electrical engineering, 72  
         group III—mechanical engineering, 73  
  
 Health, 96, 125  
*Hispanic American Historical Review*, The, 157  
 Historical sketch, brief, 9  
 History, 97  
 Honors and prizes, 140  
 Honors, conferred, 299  
     in departments, 309  
     in graduating class, 309  
     Freshman, 310  
     Junior, 309  
     Sophomore, 310  
 Honors Courses, 66  
 Honors Group, 66  
 Hours of class work, 121  
 Houses, residence, 131, 133  
  
 Indenture of Trust, 14  
 Instructional staff, 24  
 Italian, 115  
  
*Journal of Parapsychology*, 158  
*Journal of Southern Association*, 158  
 Junaluska School of Religion, 294  
     announcement, 295  
     courses, 295  
     instructors, 294  
 Junaluska Summer School, 294  
     admission, 295  
     calendar, 295  
     courses offered, 295  
     courses of instruction, 296  
         botany, 296  
         economics, 296  
         education, 296  
         English, 297  
         religion, 297  
         sociology, 297  
         Spanish, 297  
     faculty, 294  
     fees and expenses, 296  
     registration, 295  
     room and board, 296  
  
 Laboratories, biological, 153  
     chemistry, 154  
     new science, 153  
     physics, 154  
 Laboratory fees, 130  
 Latin, 100  
 Law, school of, 195  
     admission of students, 203  
     admission to advanced standing, 203  
     admission, requirements for, 203  
     candidates for graduate degrees, 204  
     combined course, 203  
     calendar, 196  
     committees, 197  
     courses offered, 210  
     enrollment, 201  
     faculty committees, 197  
     fees and expenses, 201  
     officers of administration, 197  
     organization, equipment, and special activities, 198  
     building, 199  
     clinic, legal aid, 199  
     Duke Bar Association, 200  
     history and organization, 198  
     instruction, purposes and method of, 198  
     library, 199  
     periodicals, legal, 200  
     practice course, 199

- requirements for degrees
  - Bachelor of Laws, 205
  - Doctor of Juridical Science, 209
  - Master of Laws, 208
- scholarships, 201
- students programs
  - first-year program, 205
  - second- and third-year programs, 206
- Law and Contemporary Problems*, 158
- Laws regulating payments, 134
- Lectures, the Avera Bible, 127
  - John McTyeire Flowers, 127
- university, 127, 157
- Libraries, 47
  - general, 47, 150
  - law, 49, 199
  - medical school, 50, 224
  - school of religion, 264
  - Woman's College, 49
- Library, the, 150
- Living accommodations, 131
- Loan funds, 138
- Materials fees, 130
- Mathematics, 102
- Matriculation, 120
- Mechanical engineering, 87
- Medals and prizes, 140
- Medicine, School of, 213
  - administration, officers of, 215
  - admission, committee on, regional representatives of, 220
  - admission, requirements for, 224
  - admission to advanced standing, requirements for, 225
  - anesthesia, course in, 223
  - Bachelor of Science, requirements for the degree of, 225
  - calendar, 214
  - clinic, diagnostic, for private patients, 221
  - committee, 216
  - courses open to graduate students, 192
  - curriculum, 234
  - Dietetics, School of, 222
  - Doctor of Medicine, requirements for the degree of, 225
  - fees and expenses, 237
  - fellowships, research, 238
  - Florence Reynaud McAlister Chair of Medicine and Medical Research, 238
  - general statement, 221
  - hospital, facilities of, 221
  - hospital, staff of, 217
  - instruction, departments of, 226
    - anatomy, 226
    - bacteriology and parasitology, 228
    - biochemistry, 226
    - dentistry, 232
    - general surgery, 230
    - medicine, 228, 233
    - obstetrics and gynecology, 232
    - ophthalmological division, 230
    - orthopedic division, 231
    - otolaryngological division, 231
    - pathology, 227
    - pediatrics, 233
    - physiology, pharmacology, and nutrition, 227
    - preventive medicine and public health, 233
    - roentgenology, 232
    - surgery, 230
    - toxicology, 233
    - urological division, 231
- internships and residencies, 223
- library, 224
- loan funds, Angier B. Duke Memorial and other, 237
- Nursing, School of, 222
  - postgraduate study, 223
  - public dispensary, 220
  - record library, 223
  - staff, 216
- Middle and Far East, courses on, 118, 263
- Minimum uniform requirements for all groups, 59, 67
- Music, 104
- Nursing, School of, 222, 239
  - activities offered, 242
  - administration, officers of, 241
  - admission requirements, 243
  - calendar, 240
  - committees, 241
  - course, five-year, leading to the degree of Bachelor of Science and Graduate in Nursing, 247
  - course, three-year, 243
  - courses, 244
  - expenses, 243
  - facilities for instruction, 242
  - health, 242
  - libraries, 242
  - physical education, 242
  - residence, 242
- Officers of administration, 22
- Papers of the Trinity College Historical Society*, 157
- Philosophy, 104
- Physical education, 96
- Physics, 106
- Political science, 108
- Pre-forestry, 68
- Pre-legal, 64
- Pre-medical, 61
- Psychology, 109
- Public school teaching, 62
- Publications council, 126
- Quality-Point System, explanation of, 121
- Registration, 120
- Regulations, general, for Bachelor of Arts degree, 58, 120
  - Bachelor of Science degree, 67
  - governing athletic and other eligibility, 124
  - regarding class standing, 121
  - regarding dormitories, 132
  - regarding exclusion for failure, 121
  - regarding grades, 120
  - regarding public lectures and other occasions, 125
- Religion, The School of, 249
  - administration, officers of, 251
  - admission, requirements for, 252
  - calendar, 250
  - courses of instruction, 257
    - Christian doctrine, 258
    - Church history, 258
    - history of religion, 262
    - homiletics, 259
    - missions, 262
    - New Testament, 257
    - Old Testament, 257
    - philosophy, 261
    - practical theology, 259
    - psychology of religion, 260
    - religious education, 260
    - sociology, 262
  - degree, Bachelor of Divinity, requirements for, 255
  - fees, 264
  - graduation, requirements for, 253
  - historical statement, 252
  - library, 264



- part-time schedules, 253
- purpose of, 252
- thesis, 253
- Religious exercises, 126
- Research, encouragement of, 156
- opportunities for, in forestry, 150
- Sabbatical leave, 18
- Scholars, graduate, 45
- Scholarship regulations for athletic and other organizations, 124
- Scholarships and other sources of aid, 136
- Scholarships, special endowed, 136
- Senior work, 121
- Social service, 65
- Sociology, 116
- Sororities, 142
- South Atlantic Quarterly, The*, 157
- Spanish, 115
- Special students, admission of, 57
- Student organizations and activities, 142
- Students, roll of
  - Graduate School of Arts and Sciences, 356
  - Junaluska School of Religion, 426
  - Junaluska Summer School, 405
  - School of Law, 406
  - School of Medicine, 410
  - School of Nursing, 421
  - School of Religion, 422
  - Trinity College, 311
  - Woman's College, 341
- Summary, 427
- Summer School, *The*, 265
  - admission, 275
  - calendar, 275
  - courses of instruction, 281
    - biology, 281
    - botany, 281
    - chemistry, 282
    - economics, 282
    - education, 283
    - engineering, 287
    - English, 287
    - forestry, 288
    - French, 288
    - German, 289
    - geography, 289
    - geology, 289
    - government, 289
    - history, 289
    - mathematics, 291
    - physics, 291
    - political science, 291
    - psychology, 292
    - religion, 292
    - sociology, 292
    - Spanish, 293
    - zoology, 293
  - credits, 276
  - faculty, 267
  - fees, 280
  - growth of, 275
  - new requirements for Master's degrees, 277
  - officers, administrative, 266
  - thesis writing, 279
- Teachers taking college courses, 131
- Transcripts, 135
- Trinity College, 54
- Trustees of Duke Endowment, 21
- Trustees of Duke University, 20
- Undergraduate instruction, 53
- Undergraduate scholarships, 136
- Uniform requirements for all groups, 59, 67
- Units of admission, 55
- University calendar, 5
  - fellows, 41
  - lectures, 127
  - libraries, 47, 54
  - press, 157
- Woman's College, 54
  - library, 49
- Zoology, 117















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